

AD-A164 434L

ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF
PROTECTION DEVICES FOR (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85

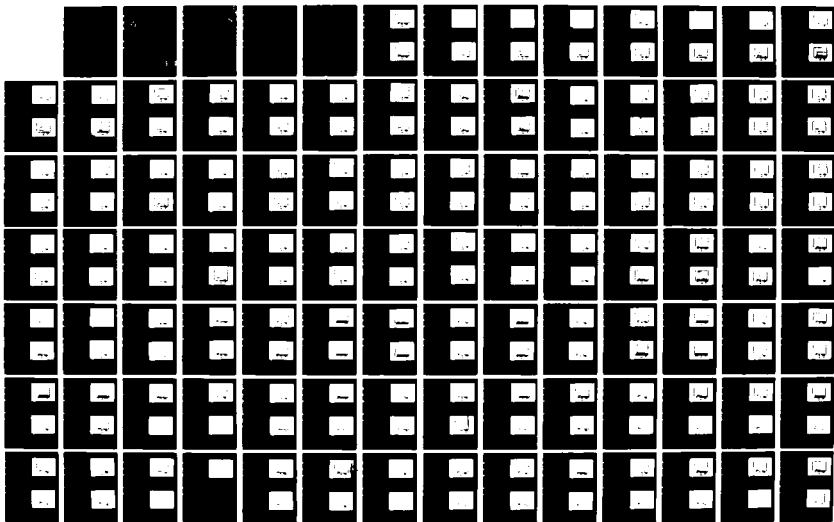
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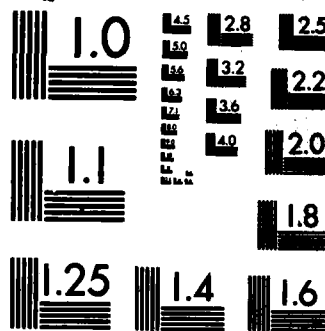
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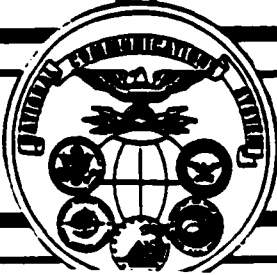




MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

2

NCS TIB 85-10



NATIONAL COMMUNICATIONS SYSTEM

AD-A164 434

VOLUME III

TEST DATA

ELECTROMAGNETIC PULSE TESTING
OF PROTECTION DEVICES

SECTION 3

LOW IMPEDANCE/HIGH VOLTAGE
TEST

5 OHMS - 4500 VOLTS - 1000 AMPS

DTIC FILE COPY

OCTOBER 1985

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REPORT DOCUMENTATION PAGE

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2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release distribution unlimited	
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE				
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6c. ADDRESS (City, State, and ZIP Code) 1725 S. Jefferson Davis Hwy., Suite 501 Arlington, VA 22202-0668		7b. ADDRESS (City, State, and ZIP Code) Washington, D.C. 20305-2010		
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		PROGRAM ELEMENT NO. 331 27K	PROJECT NO.	TASK NO. D1 6
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12. PERSONAL AUTHOR(S) Dennis Bodson, NCS; Joseph Frizzell and Thomas Higdon (ESI); Walter Rabke (Consultant)				
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FIELD	GROUP	SUB-GROUP	Amateur Radio Equipment EMP, Lightning Protection, Electro- magnetic Pulse (EMP) Protection Devices Test, EMP, Lightning, Transient Electrical/Magnetic Pulses. <i>1</i>	
19. ABSTRACT (Continue on reverse if necessary and identify by block number.) This technical report discusses the vulnerability of equipment used by amateur/MARS radio operators in the United States to disruption or damage by transient electromagnetic effects such as lightning, voltage surges, and electromagnetic pulse (EMP) waves. It also reports the results of two test programs; one to evaluate existing transient suppression devices and components, and one to evaluate the response of amateur radio equipment to an EMP transient environment. Based on the test results, the report recommends procedures and a low-cost installation scheme which will significantly increase the operational survivability of amateur type communications equipment in a lightning or EMP environment. This report consists of three volumes. Volume I (200 pages) contains the test results and recommendations for transient protection of amateur radio equipment. Volume II				
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22a. NAME OF RESPONSIBLE INDIVIDUAL Dennis Bodson			22b. TELEPHONE (Include Area Code) (202) 692-2124	22c. OFFICE SYMBOL NCS/TS

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Block 19 Continued - ABSTRACT

(136 pages) contains supporting documentation including: the test plans for the two EMP tests, descriptions/specifications of the tested transient suppression devices and the amateur radio equipment, and photographs of the test facilities and test set-ups. Volume III (1298 pages) contains the raw test data in the form of oscilloscope photographs attached to the test data sheets for both test programs, as well as, written test descriptions and bench check measurements from the equipment test program. For most purposes Volume I should provide sufficient information. Volume II would be required to obtain more detailed descriptions of the test programs and tested devices and equipment. Volume III would only be required if a separate analysis of the test data is being made.

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DTIC TAB	<input checked="checked" type="checkbox"/>
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14

NCS TECHNICAL INFORMATION BULLETIN 85-10

ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF PROTECTION
DEVICES FOR AMATEUR/MILITARY AFFILIATE RADIO SYSTEM EQUIPMENT

OCTOBER 1985

PROJECT OFFICER

DENNIS BODSON
Senior Electronics Engineer
Office of Technology
and Standards

: APPROVED FOR PUBLICATION:

Edward P. Severe
for MARSHALL L. CAIN
Assistant Manager
Office of Technology
and Standards

FOREWORD

The National Communications System (NCS) is an organization of the Federal government whose membership is comprised of 22 Government entities. Its mission is to assist the President, National Security Council, Office of Science and Technology Policy, and Office of Management and Budget in:

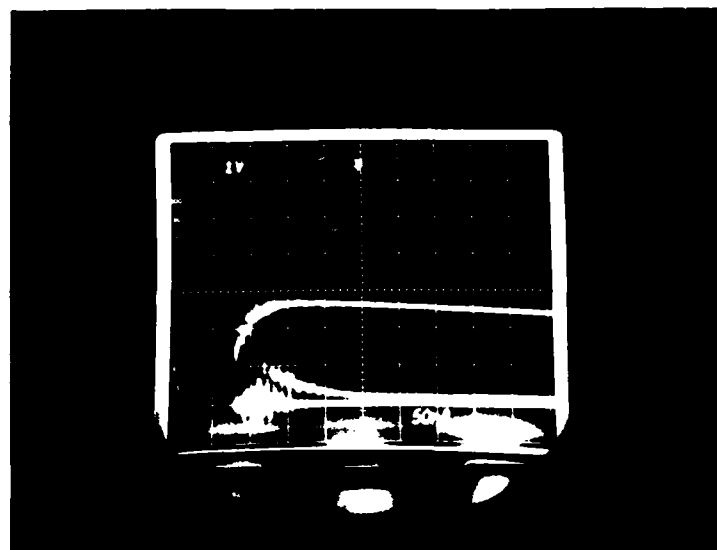
- o The exercise of their wartime and non-wartime emergency functions, and their planning and oversight responsibilities.
- o The coordination of the planning for and provision of National Security/Emergency Preparedness communications for the Federal government under all circumstances including crisis or emergency.

In support of this mission the NCS has executed a Memorandum of Understanding with the American Radio Relay League. Its purpose is to establish a broad framework for a cooperative and close working relationship with volunteer radio amateurs for support of national emergency communications functions. It is intended through joint coordination and exercise of the resources of both organizations, to enhance the nation-wide posture of telecommunications readiness for any conceivable national emergency. This particular Technical Information Bulletin is one of a series aimed at developing an awareness in the radio amateur community of practical, low cost EMP protective procedures, devices, and equipment which may if utilized significantly enhance the probability of amateur radio resources escaping serious damage during emergency situations involving EMP events.

Comments, on this TIB are welcome, and should be addressed to:

Office of the Manager
National Communications System
ATTN: NCS-TS
Washington, DC 20305-2010
(202) 692-2124

Date	5-31-85
Test Point	1-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	506



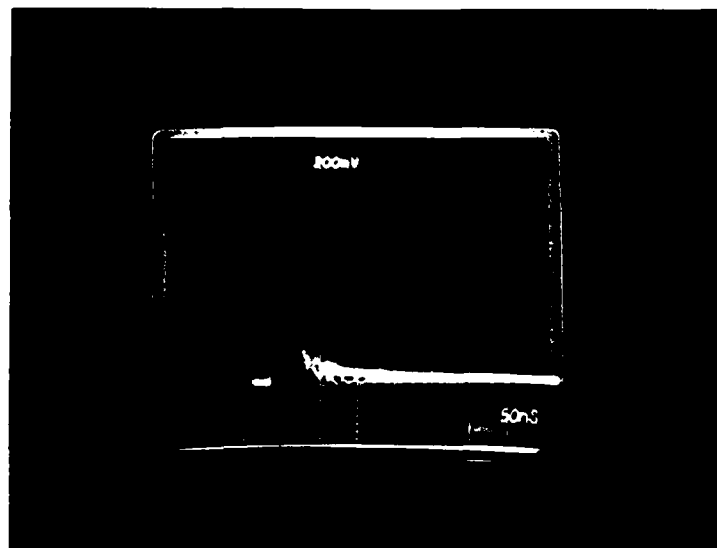
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Test Point	LR-CL-1/10-φ
Amplification	dB
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Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



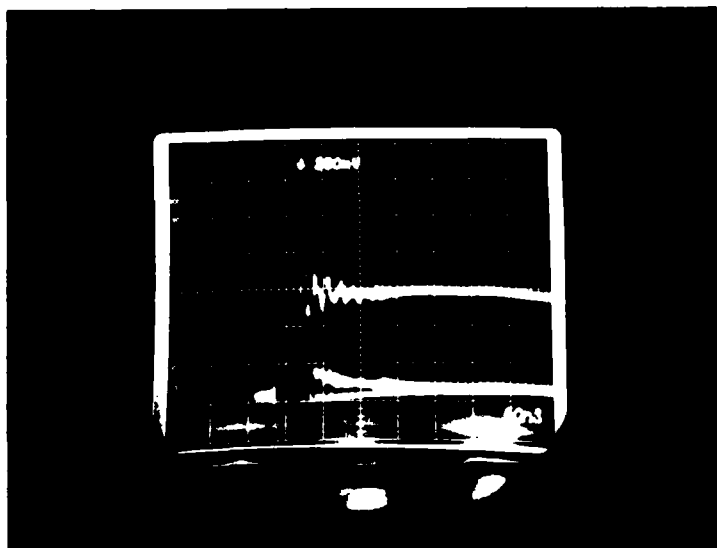
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Date	5-29-85		
Test Point	2-BL-1/10-Ø		
Amplification	0 dB		
Attenuation	20 dB		
Horizontal	50	ns/div	1
Vertical	.2V (480V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+ 4500V		
Data Link			
Comments:	347		



347

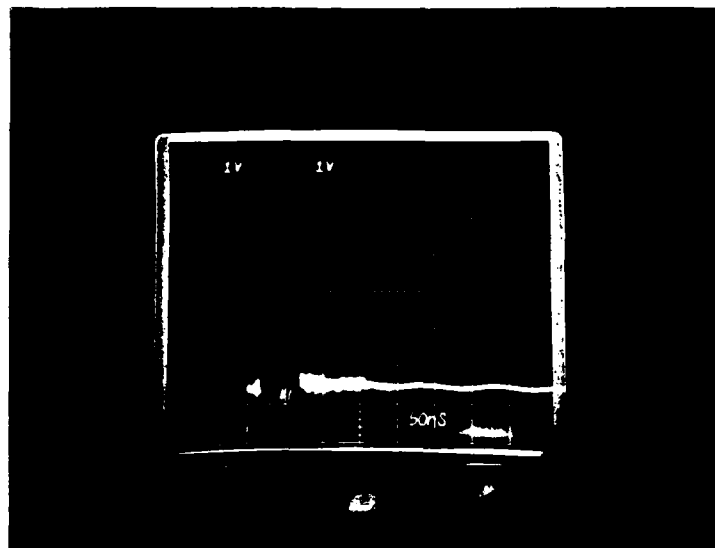
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Vertical	.2V (480V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			
Comments:	348		



348

$$V_{REF} = .5V (1200V) / DIV$$

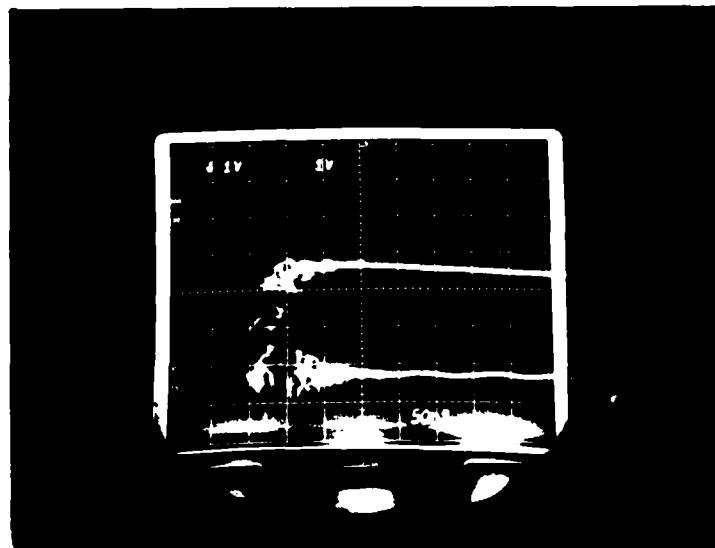
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 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical N(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments:



360

$$V_0 = 0.786V$$

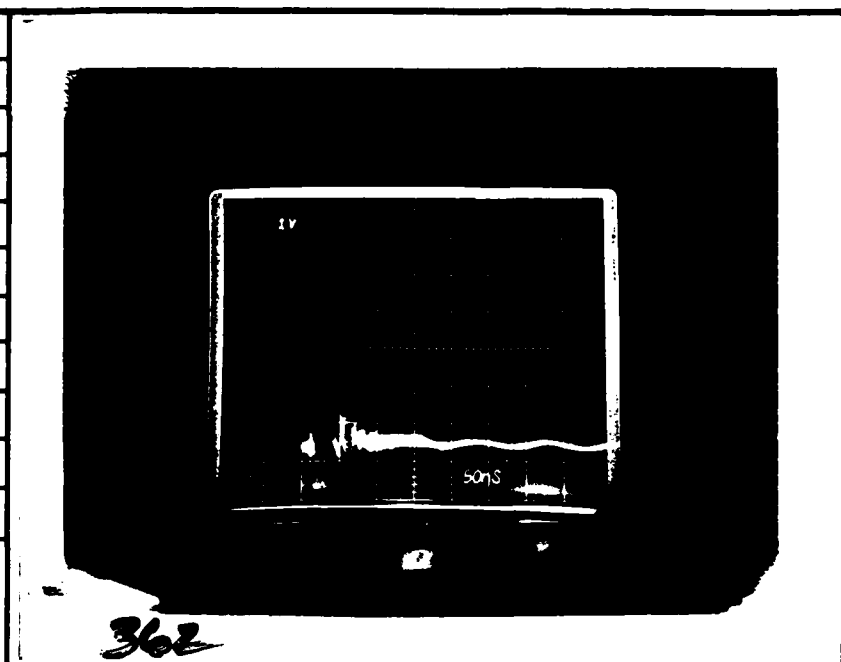
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 Amplification dB
 Attenuation 20 dB
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 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments:



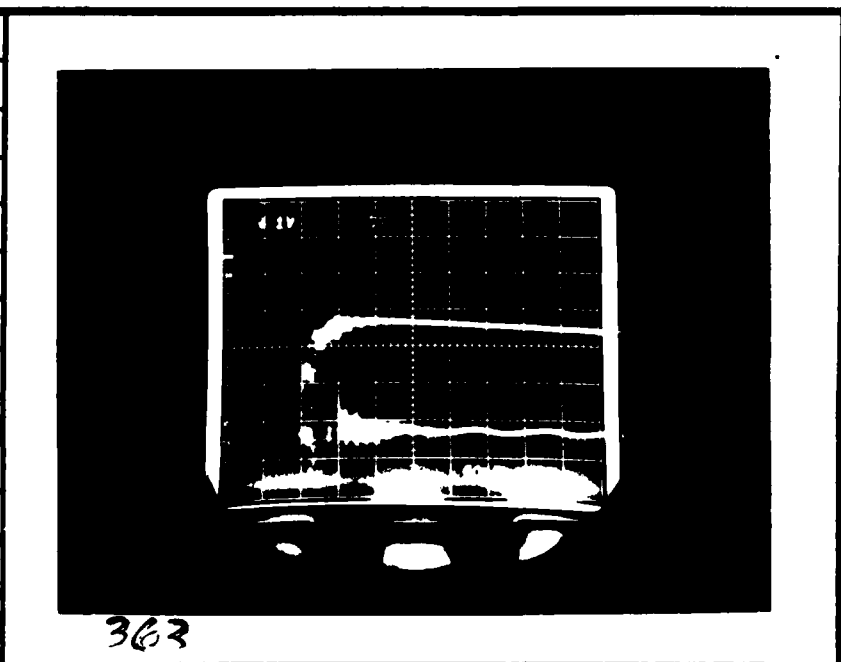
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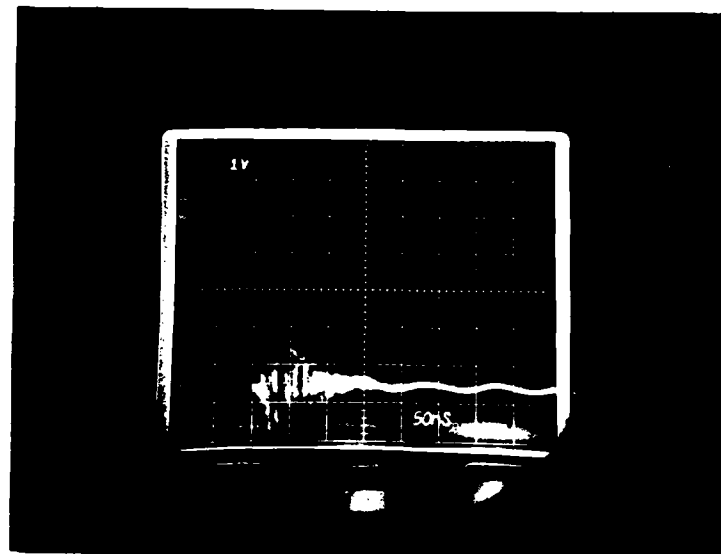
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Amplification	dB
Attenuation	20 dB
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Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



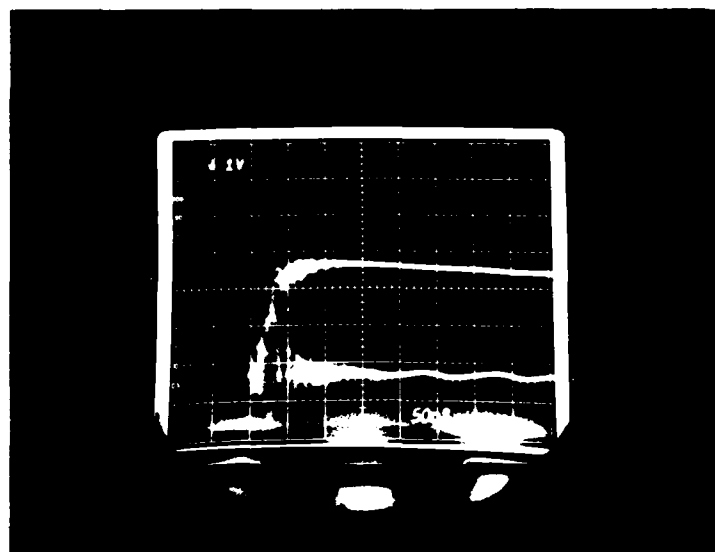
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Attenuation	20 dB
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Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



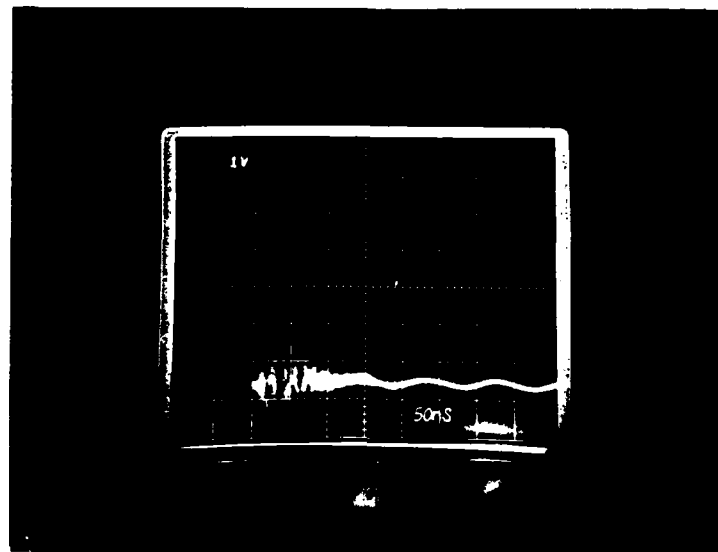
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Test Point	5-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	



Date	5-29-85
Test Point	5R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	

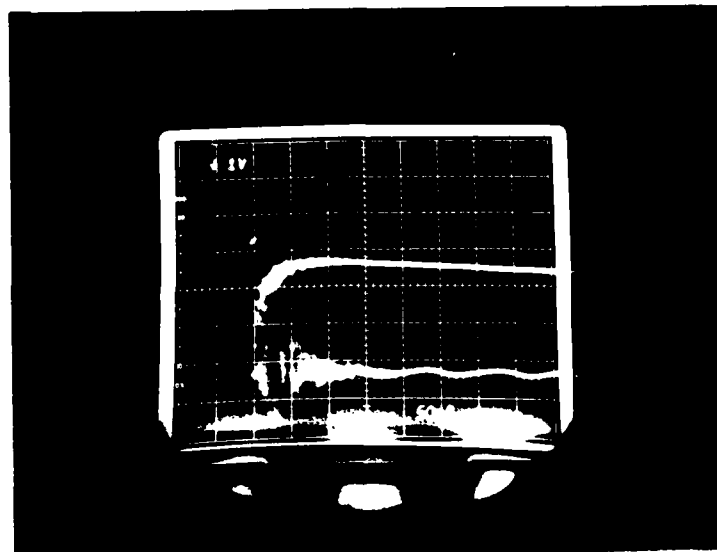


Date	5-29-85
Test Point	5-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	



366

Date	5-29-85
Test Point	5R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	



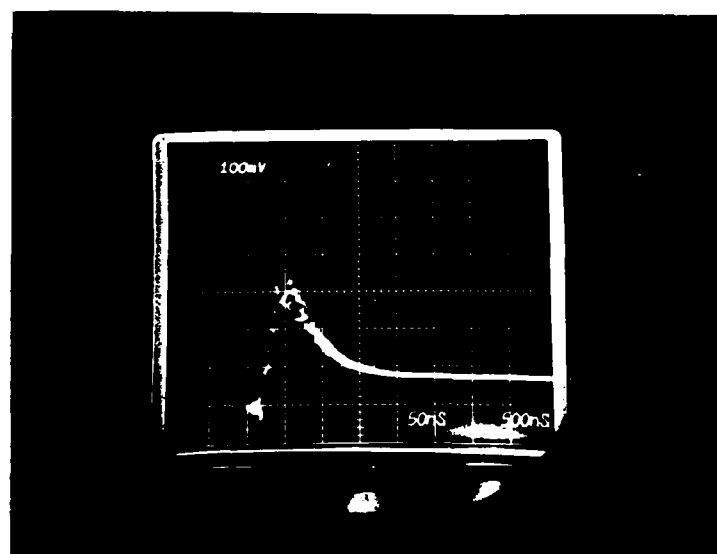
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Date	5-29-85
Test Point	6-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1V(190V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	

Comments:

370

.1V(190V)/Div.

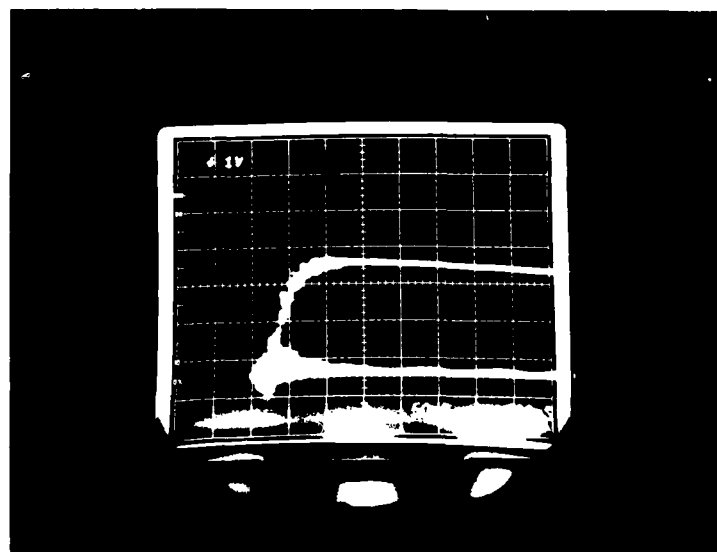


Date	5-29-85
Test Point	6R-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
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Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	

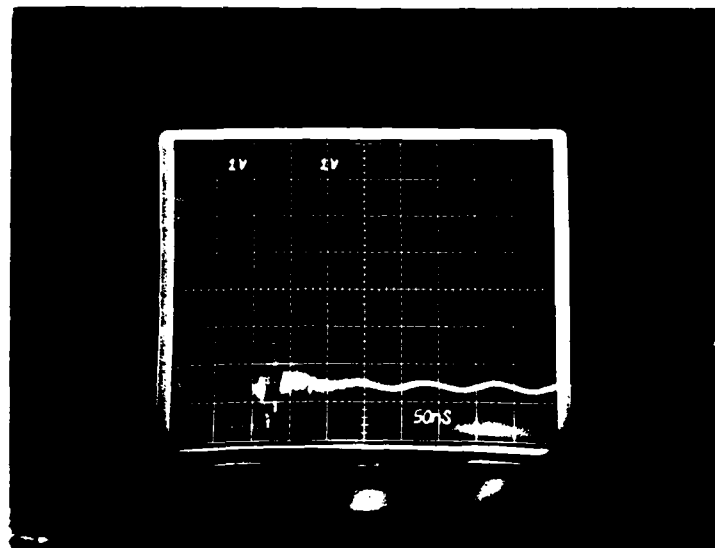
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1.0V(1900V)/Div.

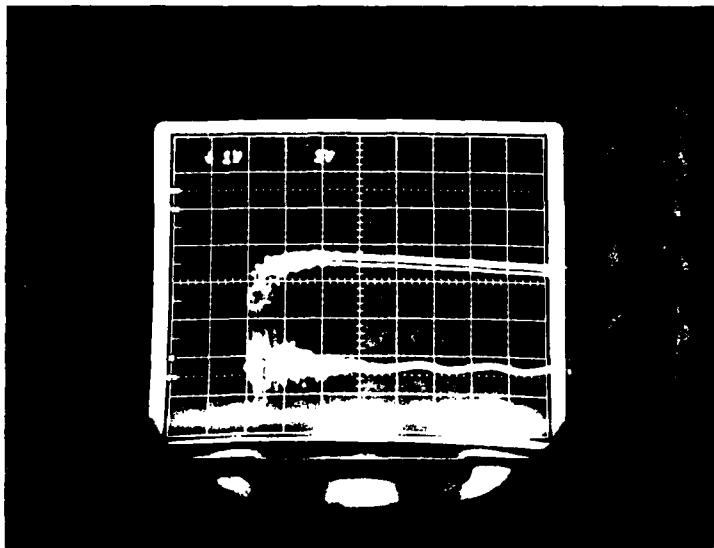


Date	5-29-85		
Test Point	7-CL-1/10-Φ		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			
Comments:			



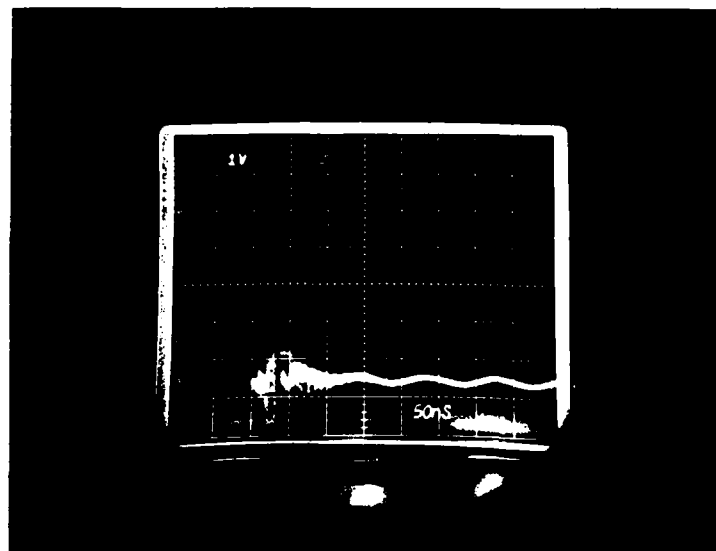
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Date	5-29-85		
Test Point	7R-CL-1/10-Φ		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			
Comments:			



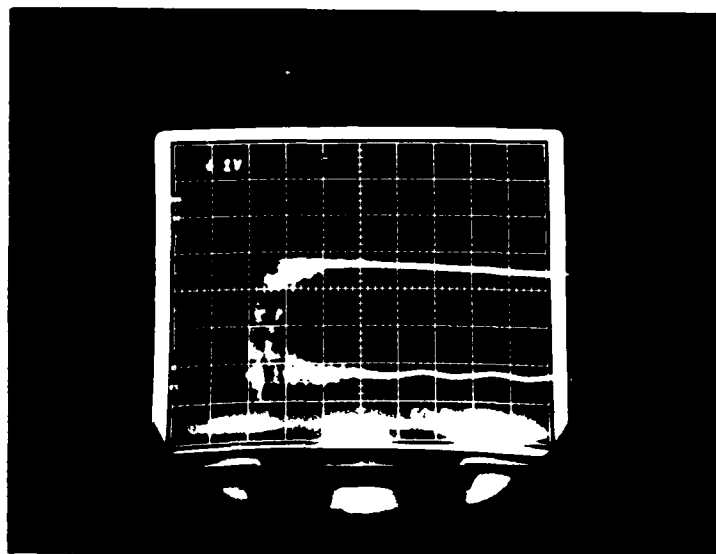
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Date	5-29-85
Test Point	8-CL-110-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



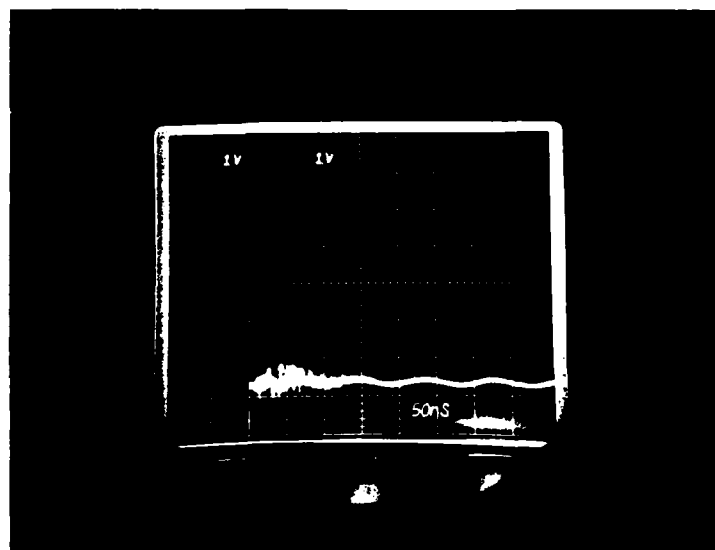
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Date	5-29-85
Test Point	8R-CL-110-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	



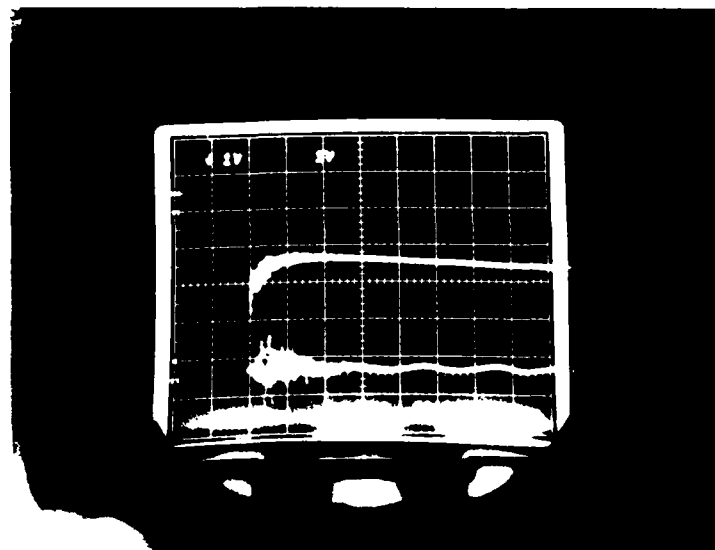
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Date	5-29-85		
Test Point	9-CL-1/10-Ø		
Amplification	dB		
Attenuation	20 dB		
Horizontal	50	ns/div	1
Vertical	N(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			
Comments:			



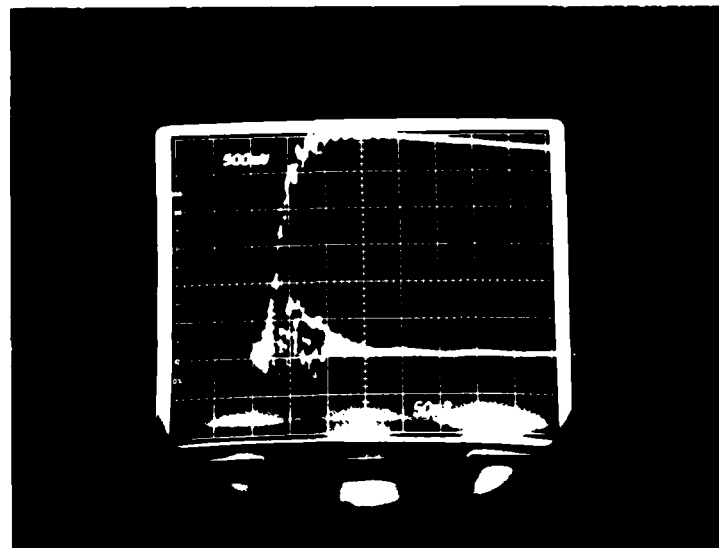
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Date	5-29-85		
Test Point	9R-CL-1/10-Ø		
Amplification	dB		
Attenuation	20 dB		
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			
Comments:			

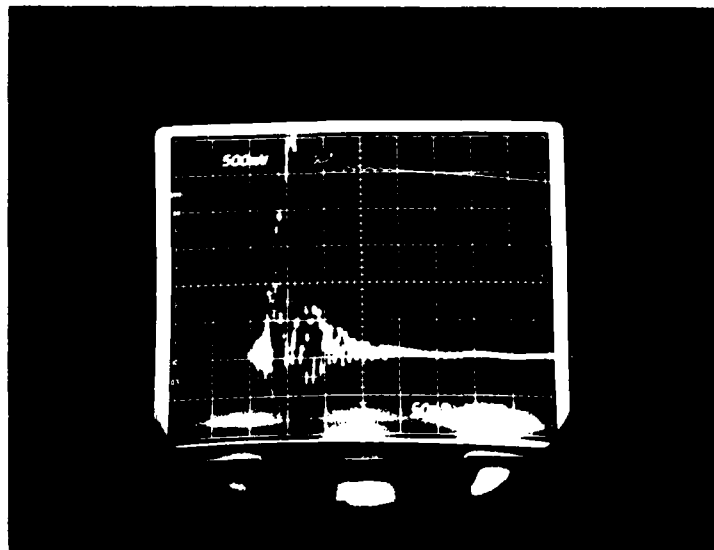


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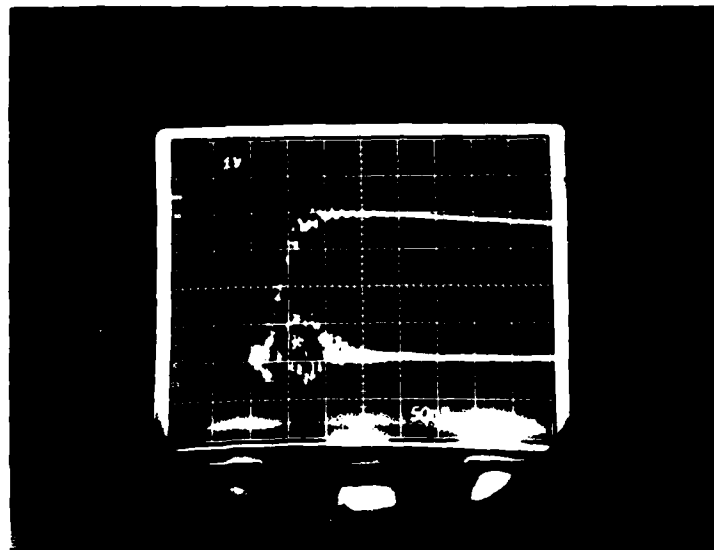
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Test Point	11-CL-1/10-A	
Amplification	0 dB	
Attenuation	20 dB	
Horizontal	50	ns/div 1
Vertical	.5V(950V)	ms/div 1
Horizontal		ns/div 2
Vertical		ns/div 2
Configuration		
Pulser Level	+4500	
Data Link		
Comments:	382	



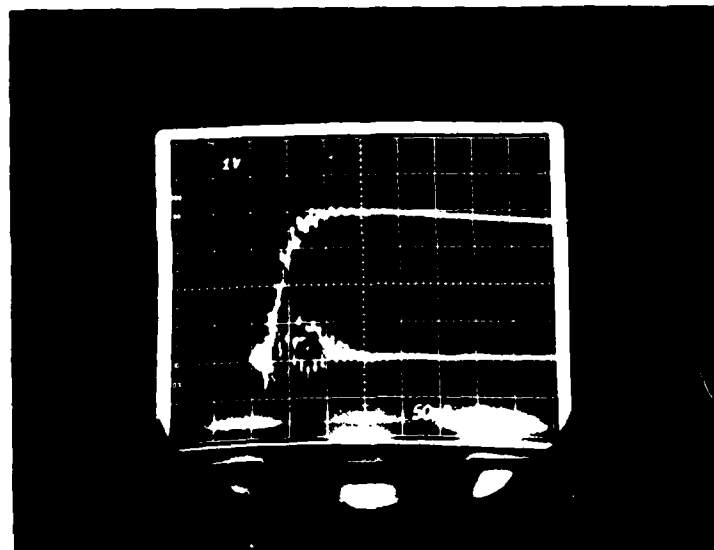
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Test Point	11R-CL-1/10-A	
Amplification	0 dB	
Attenuation	20 dB	
Horizontal	50	ns/div 1
Vertical	.5V(950V)	ms/div 1
Horizontal		ns/div 2
Vertical		ns/div 2
Configuration		
Pulser Level	-4500	
Data Link		
Comments:	383	



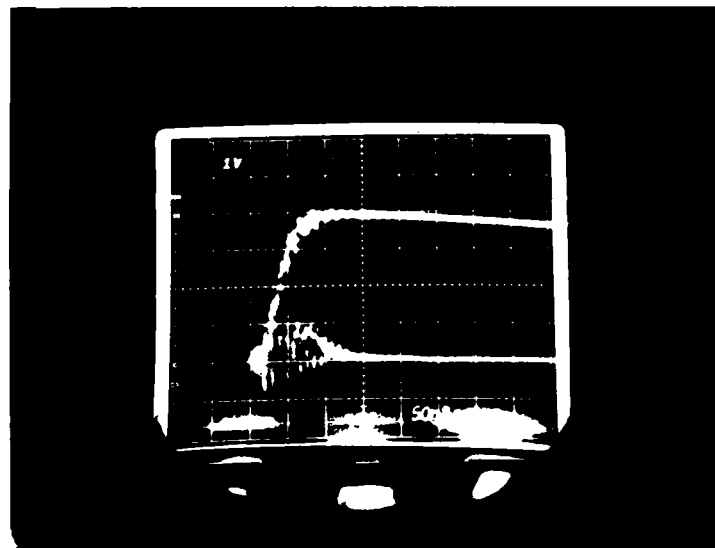
Date 5-30-85
 Test Point 11-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level +4500
 Data Link
 Comments: 384



Date 5-30-85
 Test Point 11R-CL-1/10-B
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level -4500
 Data Link
 Comments: 385

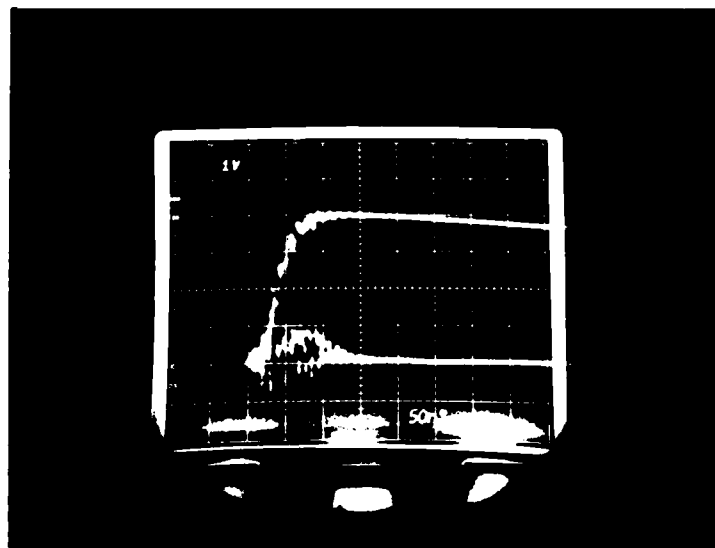


Date	5-30-85		
Test Point	11-CL-1/10-C		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+4500		
Data Link			
Comments:	386		



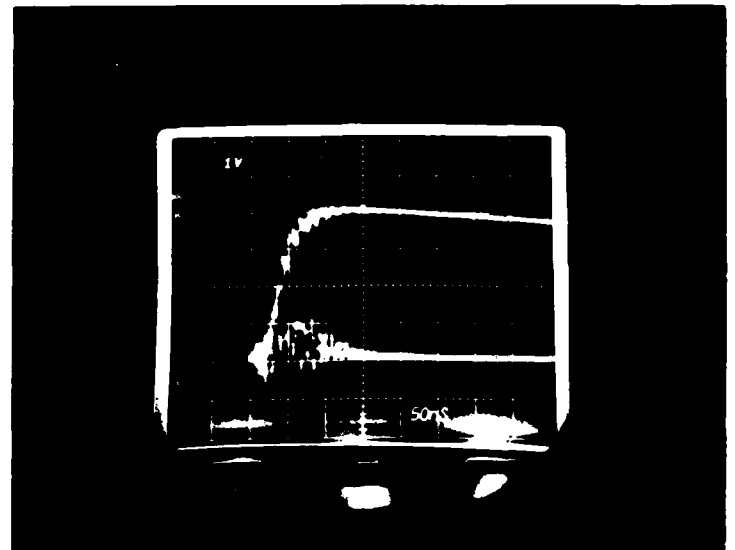
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Date	5-30-85		
Test Point	11R-CL-1/10-C		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500		
Data Link			
Comments:	387		



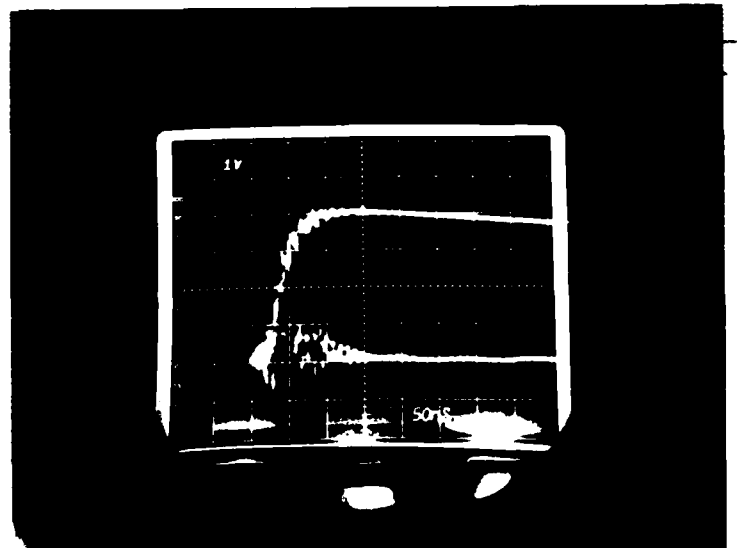
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Date	5-30-85
Test Point	11-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500
Data Link	
Comments:	388



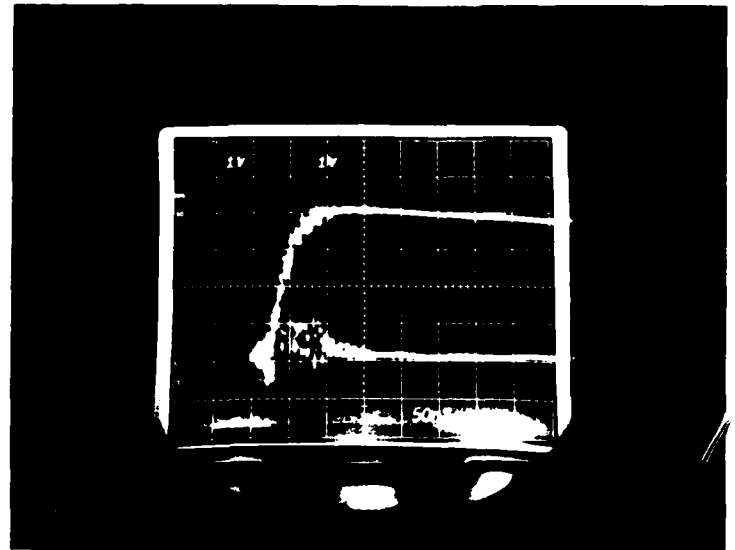
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Date	5-30-85
Test Point	11R-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500
Data Link	
Comments:	389



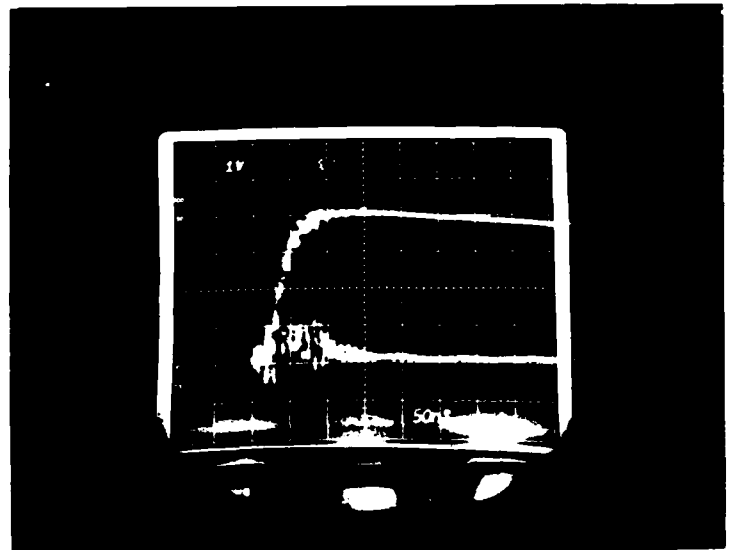
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Date	5-30-85
Test Point	11-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	390



390

Date	5-30-85
Test Point	11R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	391



391

Date	5-30-85
Test Point	12-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5(950V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	

Comments: 468

COMMON LEAD

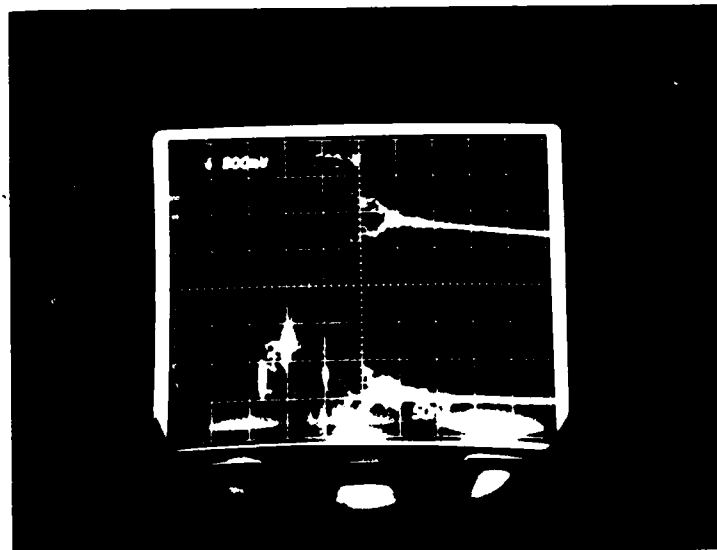


468

Date	5-30-85
Test Point	12R-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	

Comments: 469

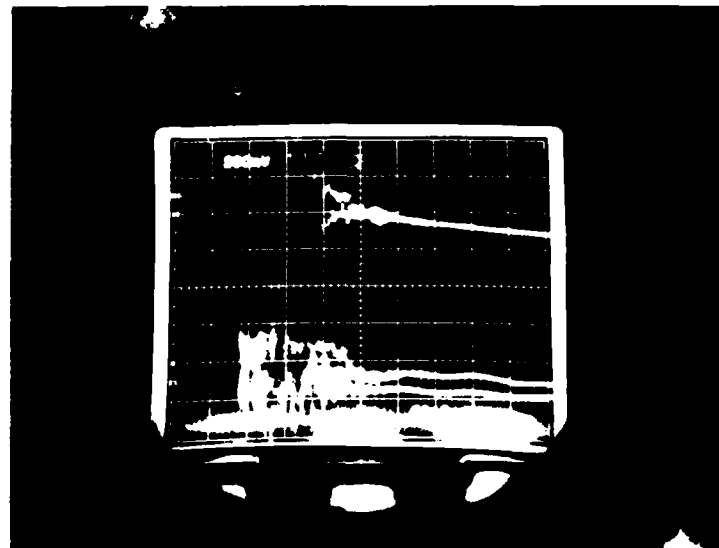
COMMON LEAD



469

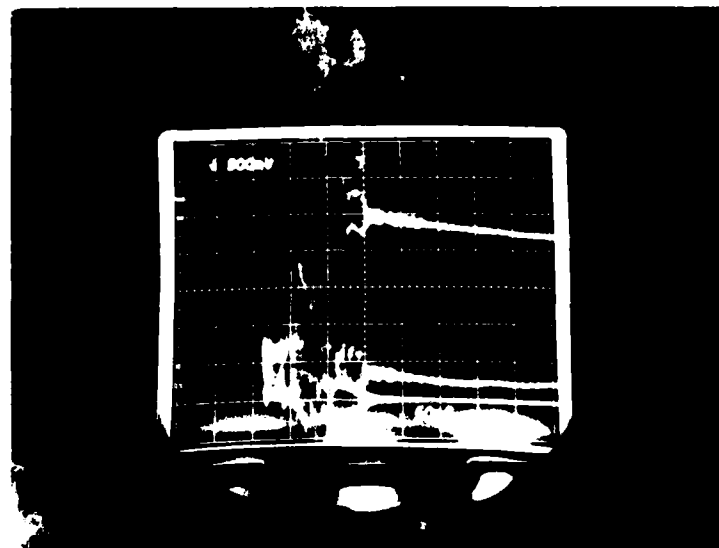
Date	5-30-86
Test Point	12-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	468

"HOT" LEAD

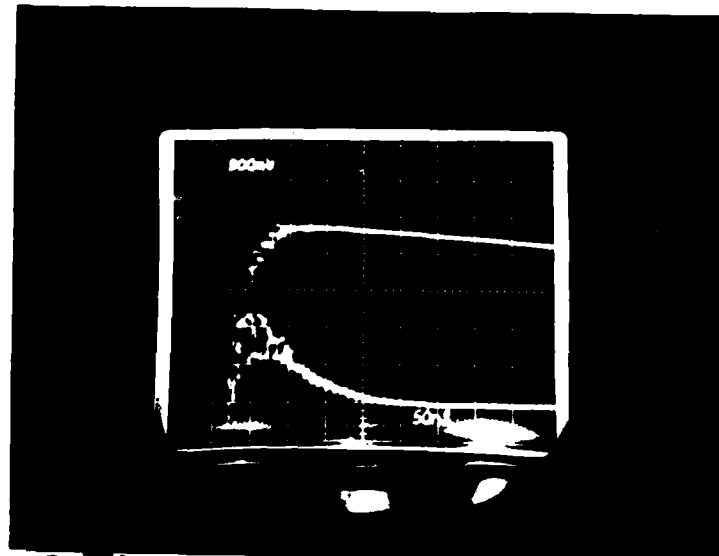


Date	5-30-85
Test Point	12R-CL-1/10-φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	469

"HOT" LEAD



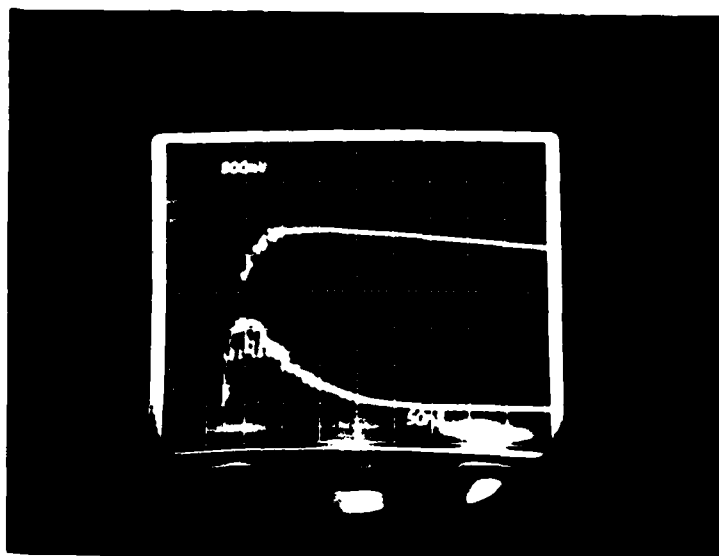
Date	6-4-85
Test Point	13-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500V
Data Link	
Comments:	750



750

WHITE LEAD TO \perp

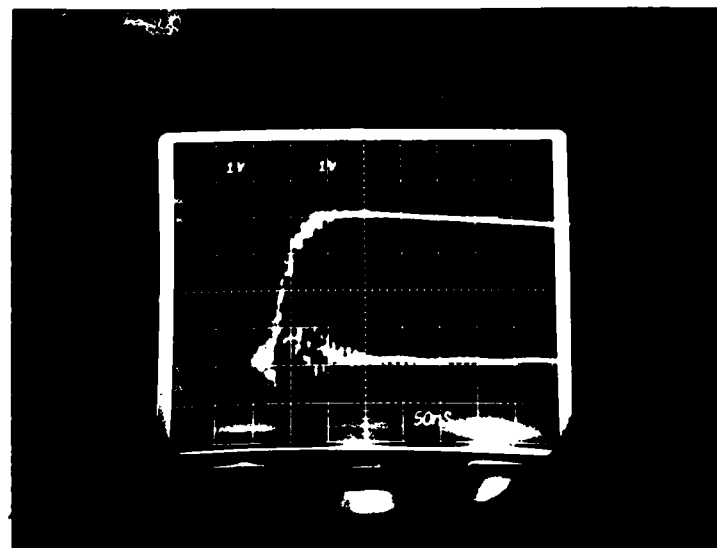
Date	6-4-85
Test Point	13R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	751



751

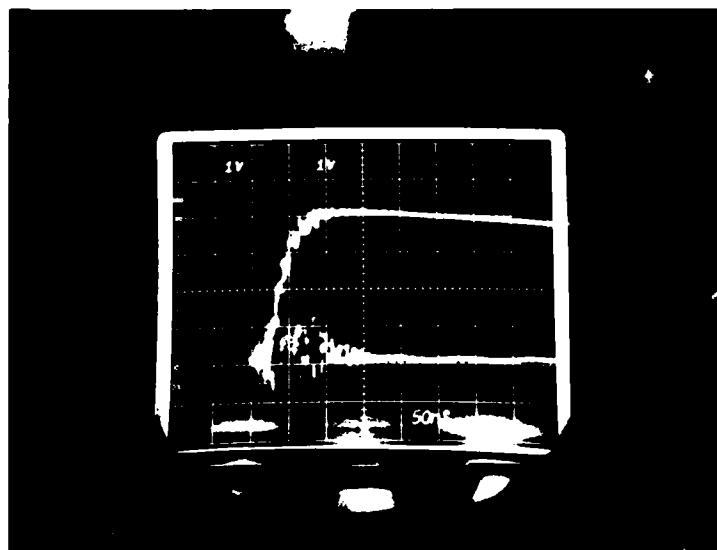
BLACK LEAD TO \perp GND

Date	5-30-85		
Test Point	15-CL-1/10-A		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	N(1900)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+4500		
Data Link			
Comments:	392		



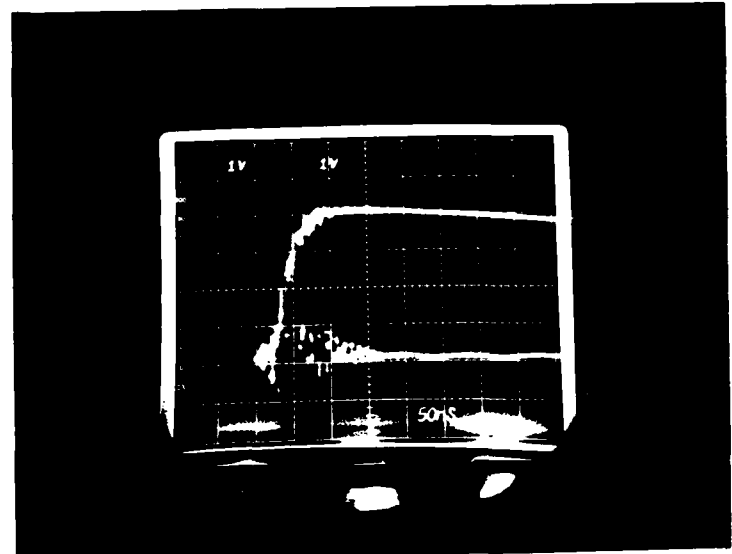
392

Date	5-30-85		
Test Point	15R-CL-1/10-A		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500		
Data Link			
Comments:	393		



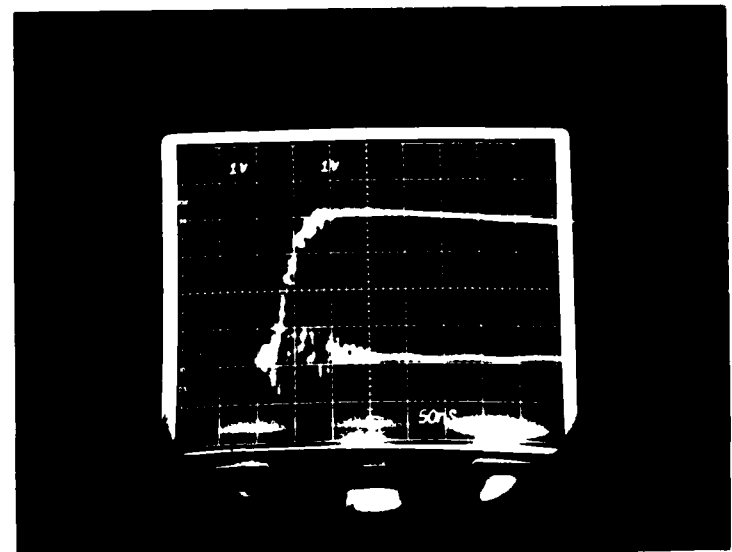
393

Date	5-30-85
Test Point	15-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	394



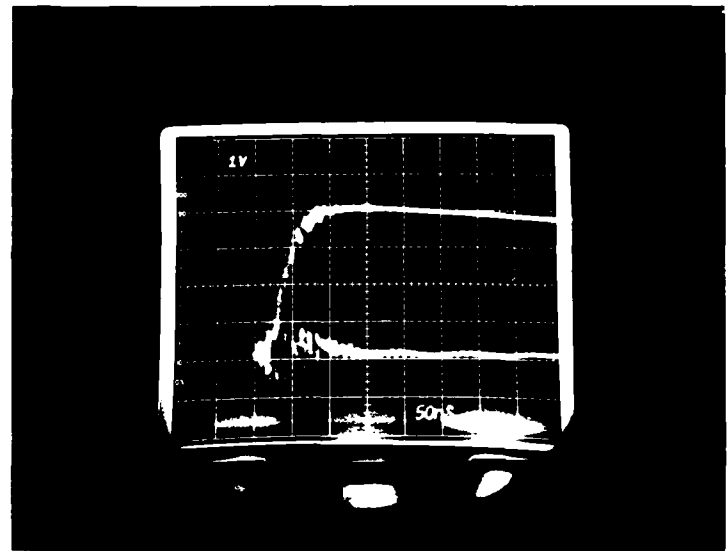
394

Date	5-30-85
Test Point	15R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	395

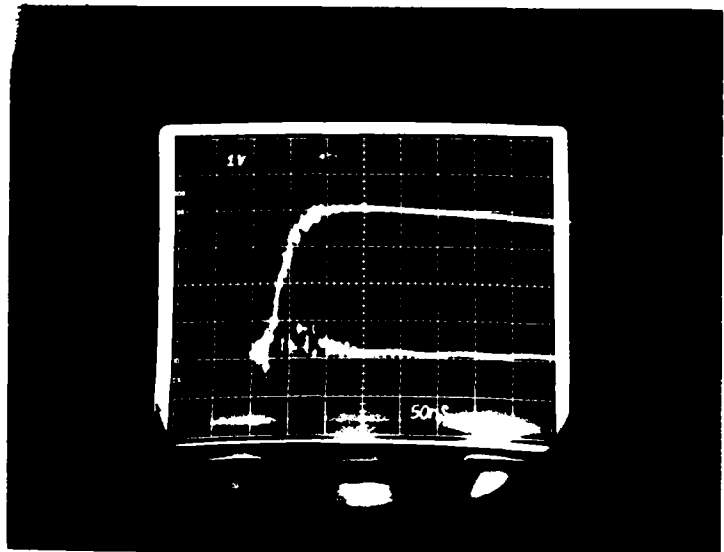


395

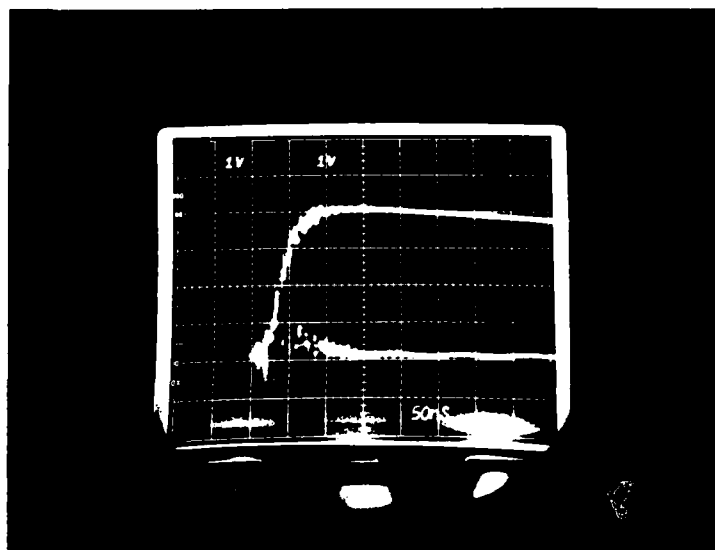
Date	5-30-85
Test Point	15-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	402



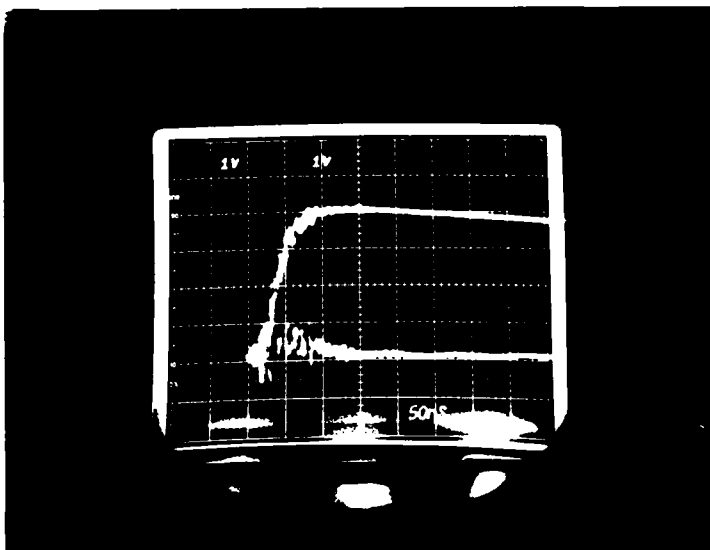
Date	5-30-85
Test Point	15R-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	403



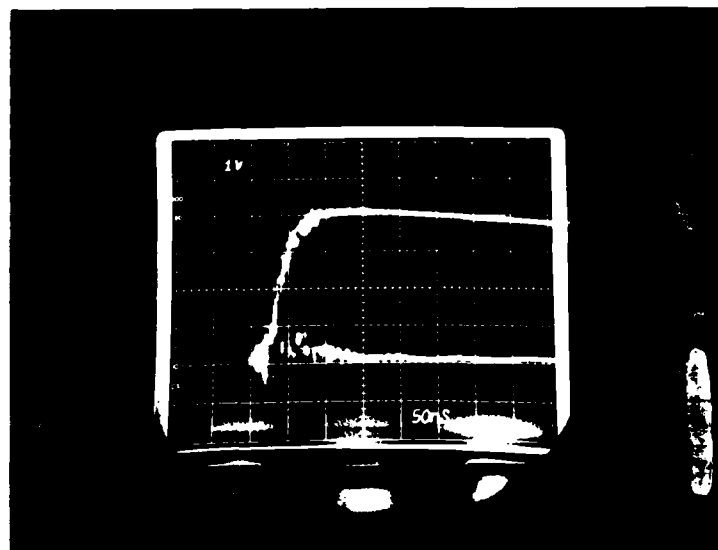
Date	5-30-85
Test Point	15-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	404



Date	5-30-85
Test Point	15R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	405

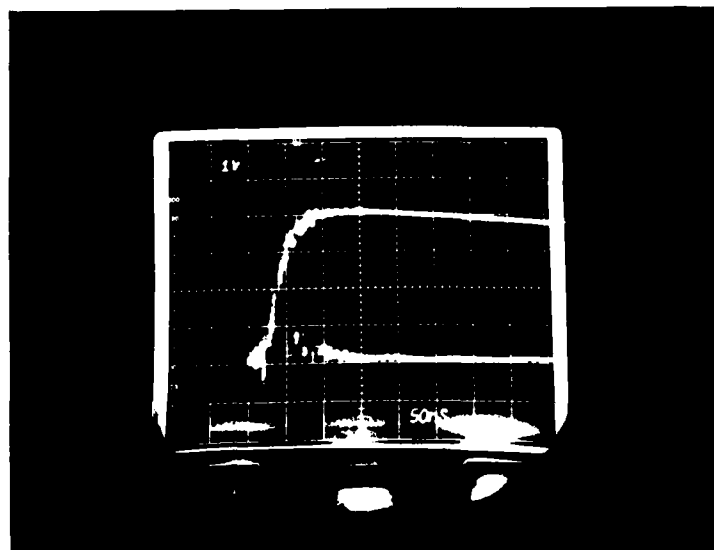


Date	5-30-85		
Test Point	15-CL-1/10-E		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V (1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500 V		
Data Link			
Comments:	406		



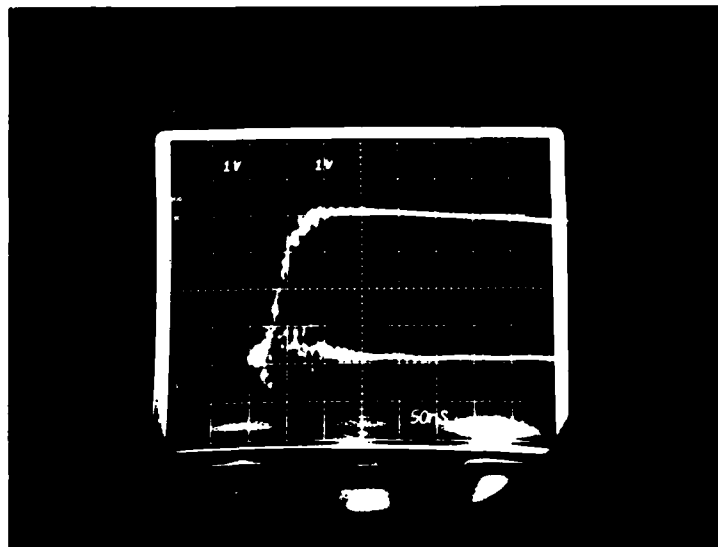
15-CL-1/10-E

Date	5-30-85		
Test Point	15R-CL-1/10-E		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V (1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	- 4500 V		
Data Link			
Comments:	407		



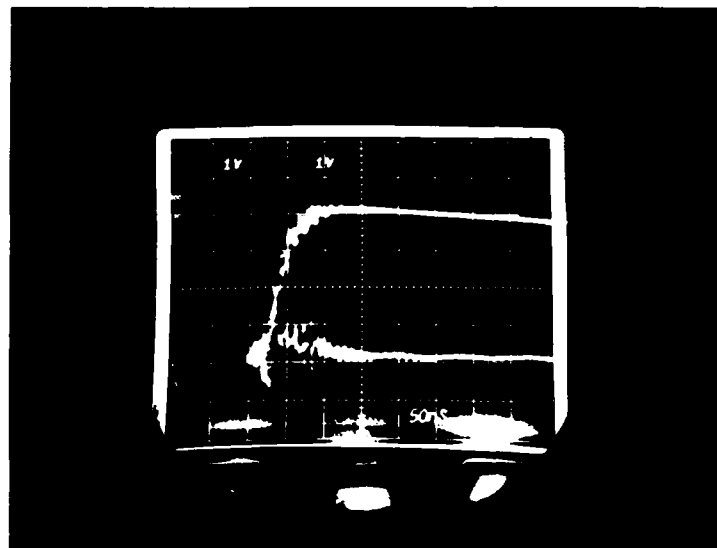
15R-CL-1/10-E

Date	5-30-85
Test Point	17-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	396



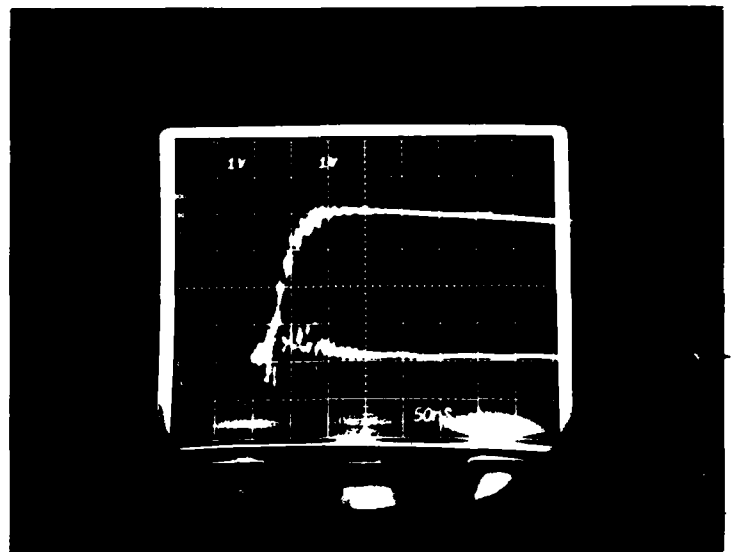
396

Date	5-30-85
Test Point	17R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	397



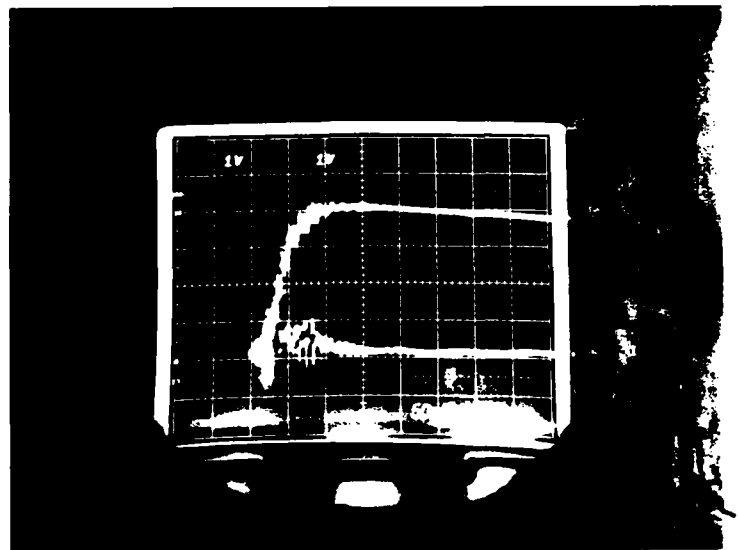
397

Date	5-30-85
Test Point	17-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500
Data Link	
Comments:	398



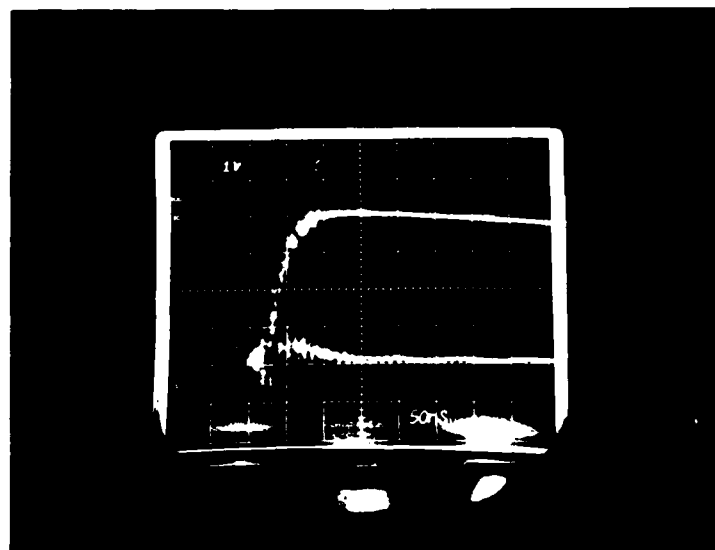
398

Date	5-30-85
Test Point	17R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500
Data Link	
Comments:	399



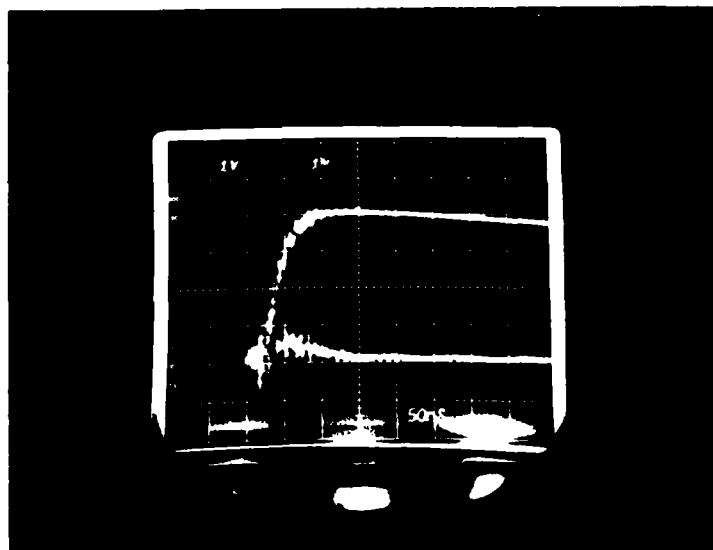
399

Date	5-30-85
Test Point	17-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	408



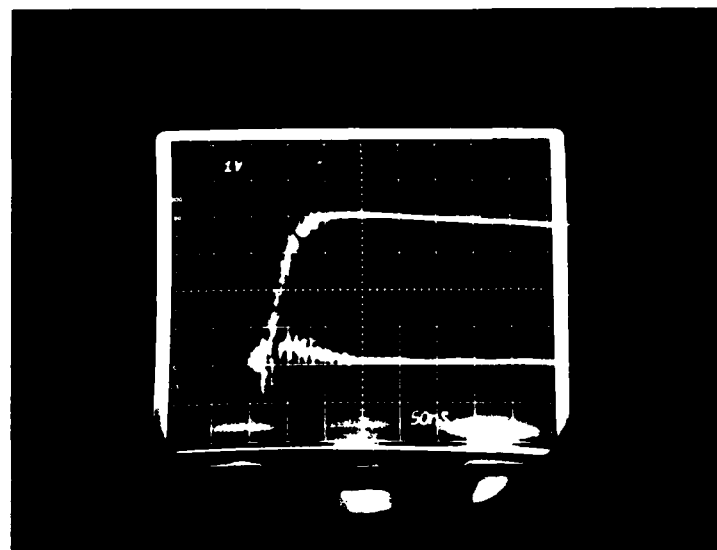
408

Date	5-30-85
Test Point	17R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	409



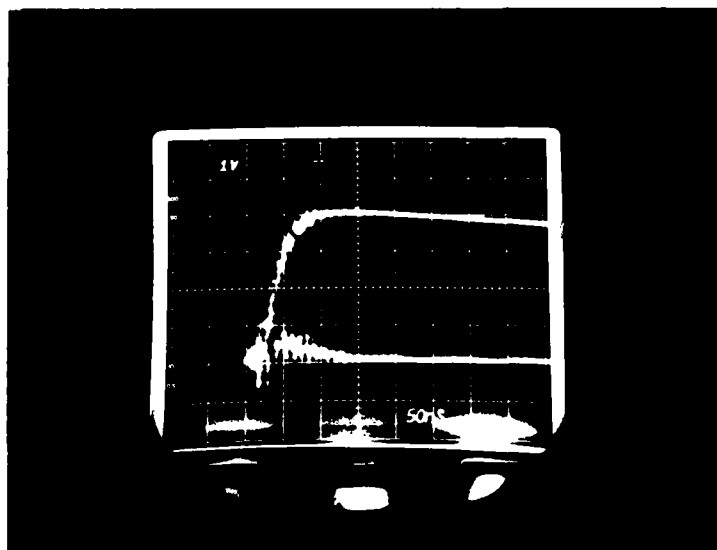
409

Date	5-30-85
Test Point	17-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	410



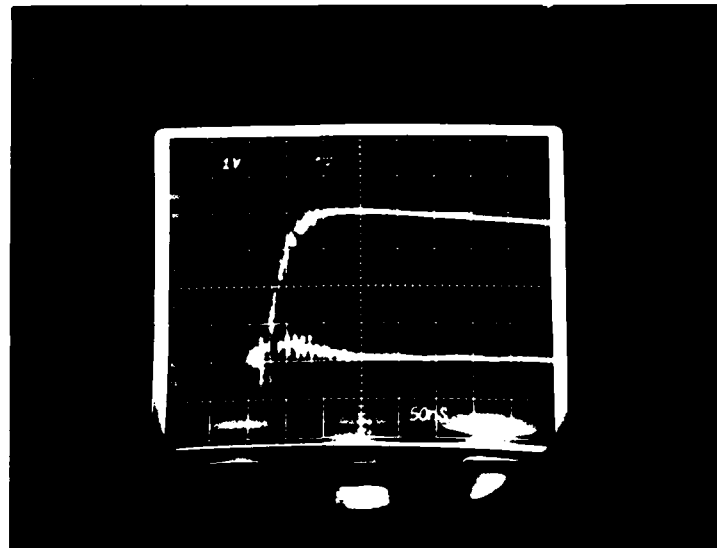
410

Date	5-30-85
Test Point	17R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	411



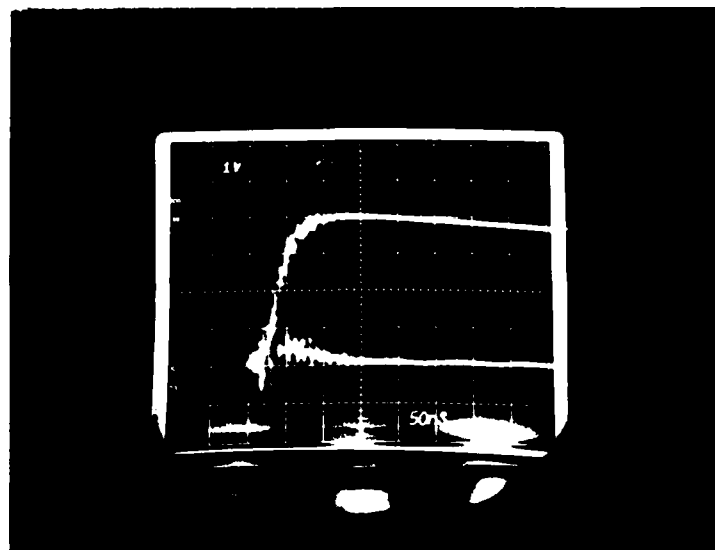
411

Date	5-30-85
Test Point	17-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	412



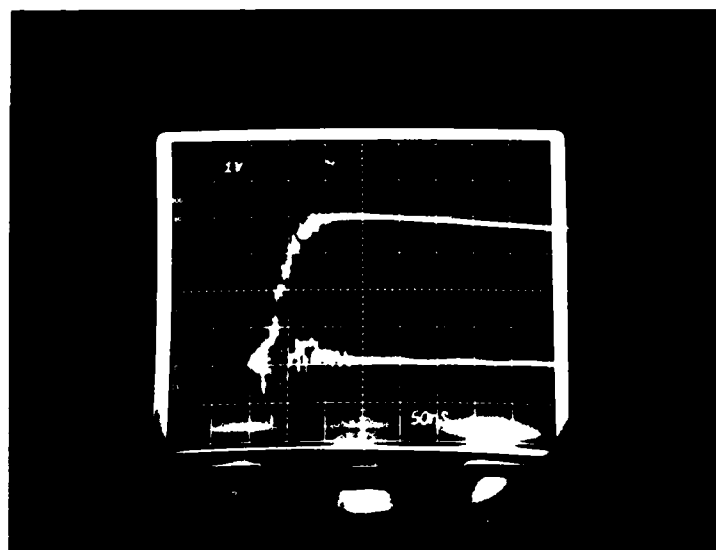
412

Date	5-30-85
Test Point	17R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	413

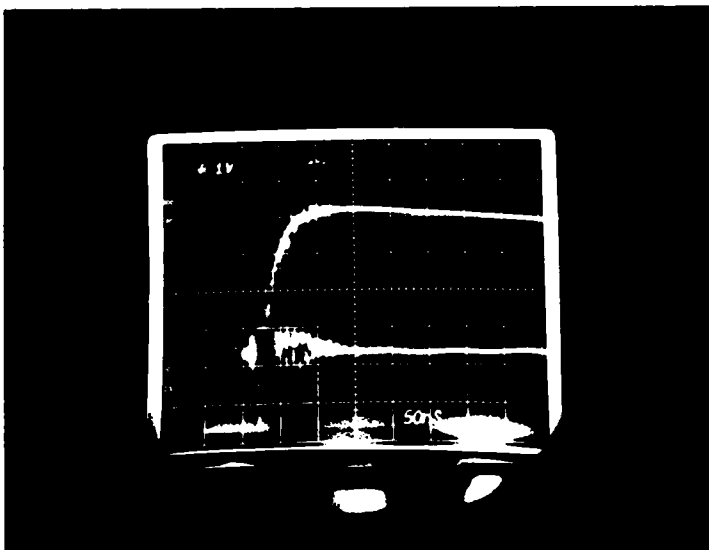


413

Date	5-30-85
Test Point	19-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	414



Date	5-30-85
Test Point	19R-CL-1/10-A
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	415

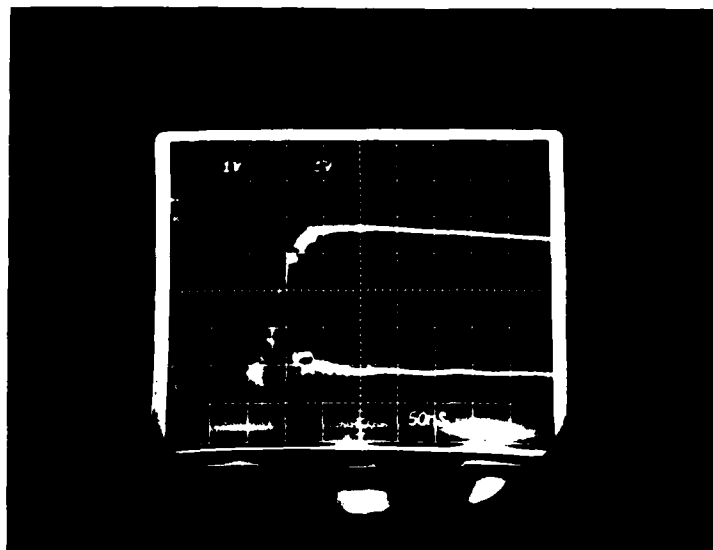


Date	5-30-85		
Test Point	19-CL-1/10-B		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mv/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	4500V		
Data Link			

Comments:

416

MOVED TRACE (ZERO)
DOWN

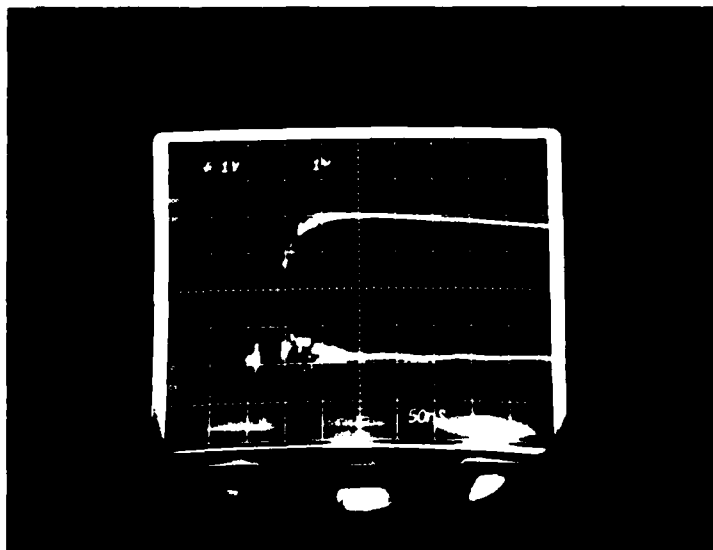


416

Date	5-30-85		
Test Point	19R-CL-1/10-B		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mv/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500V		
Data Link			

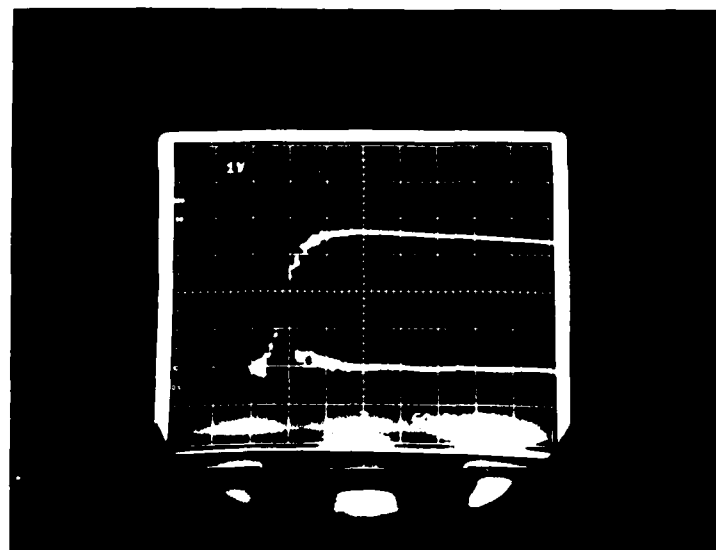
Comments:

417

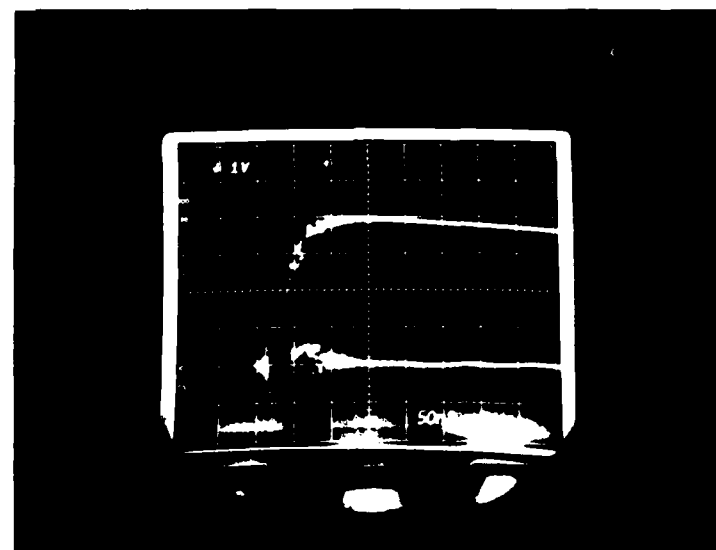


417

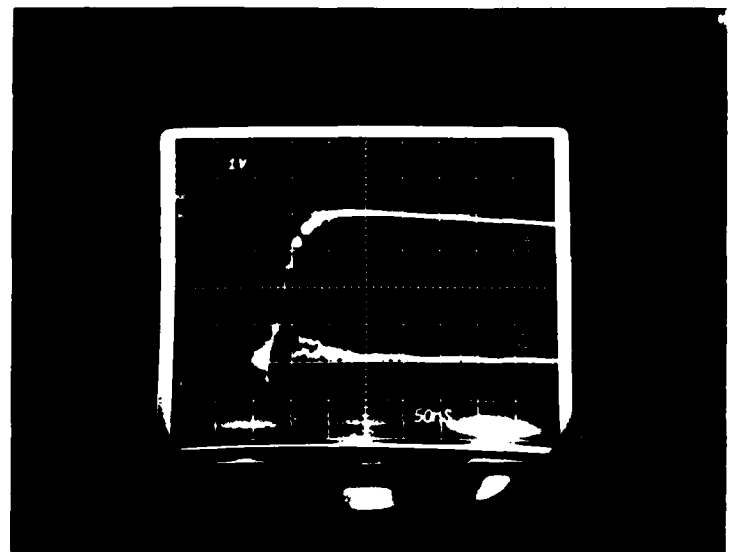
Date	5-30-85
Test Point	19-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	418



Date	5-30-85
Test Point	19R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	419

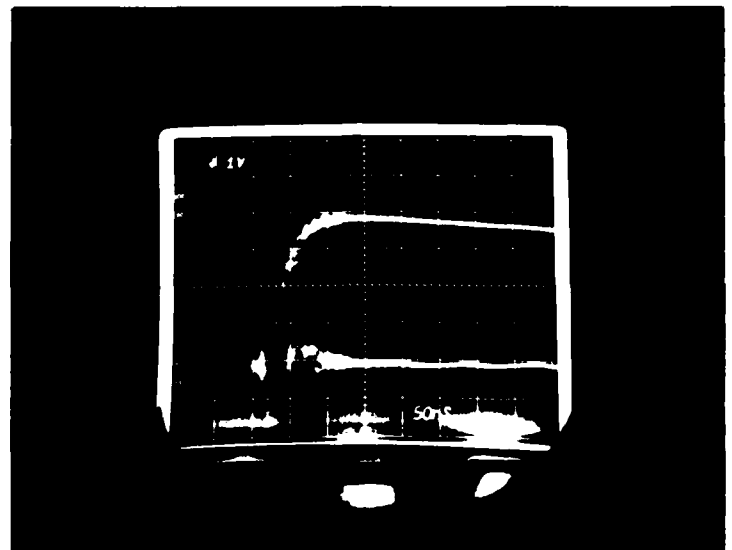


Date	5-30-85
Test Point	19-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	420



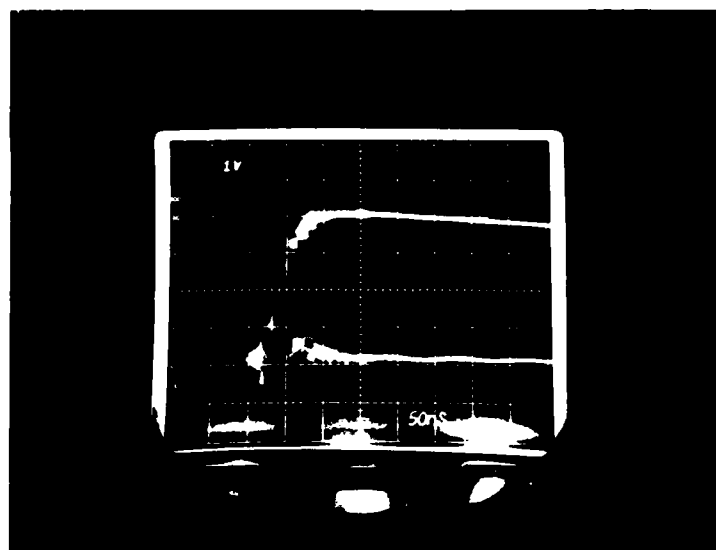
420

Date	5-30-85
Test Point	19R-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	421



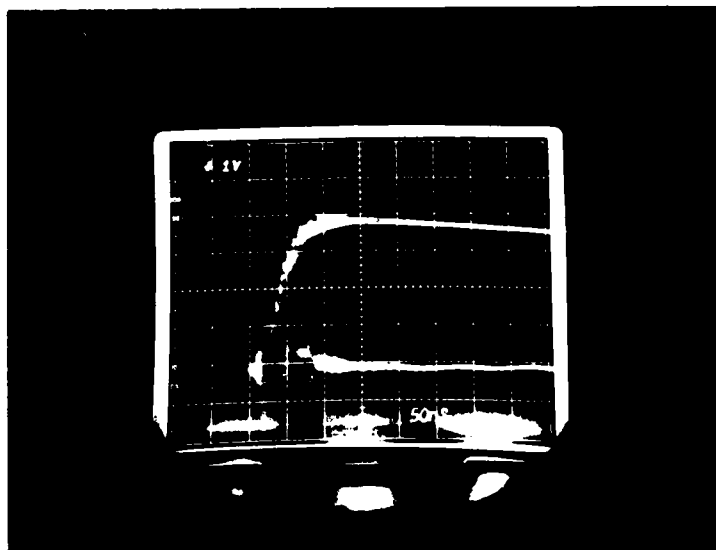
421

Date	5-30-85
Test Point	19-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	426



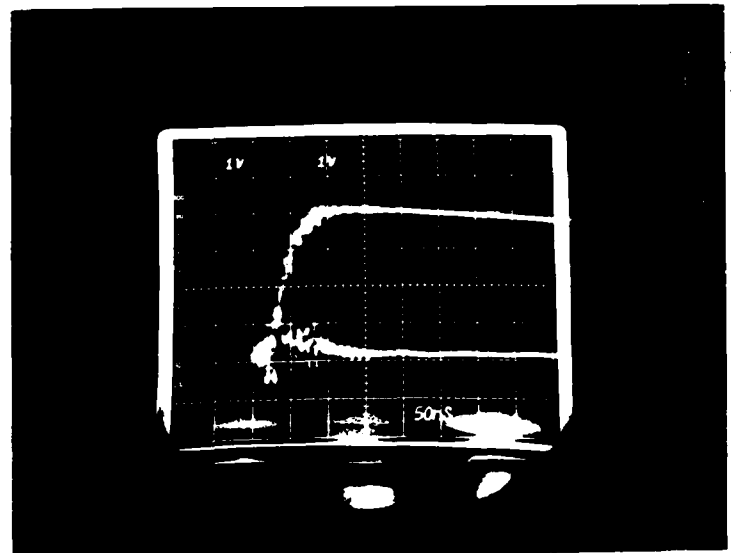
426

Date	5-30-85
Test Point	19R-CL-1/10-E
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	427

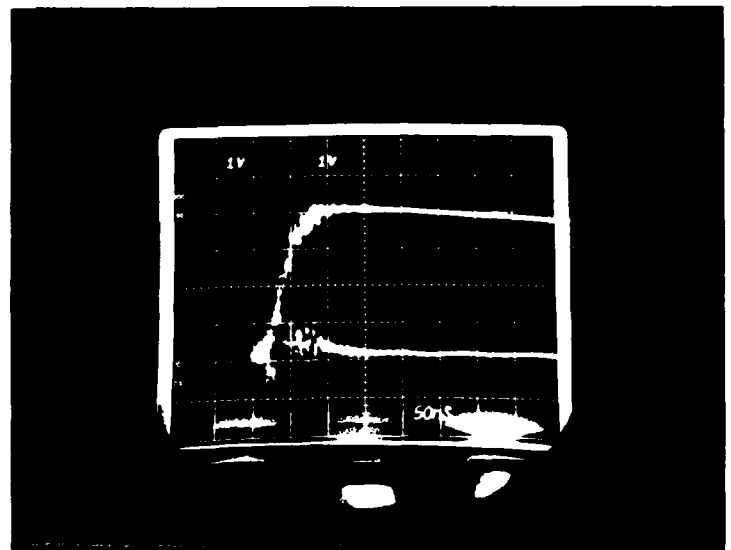


427

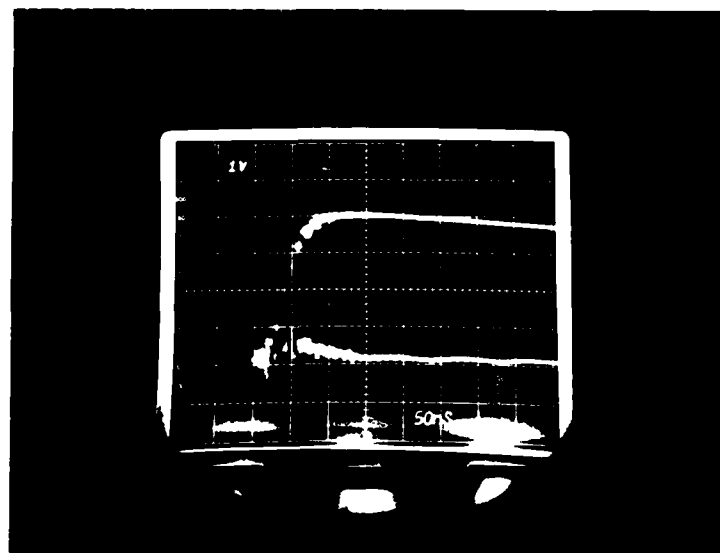
Date	5-30-85
Test Point	21-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	400



Date	5-30-85
Test Point	21R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	401

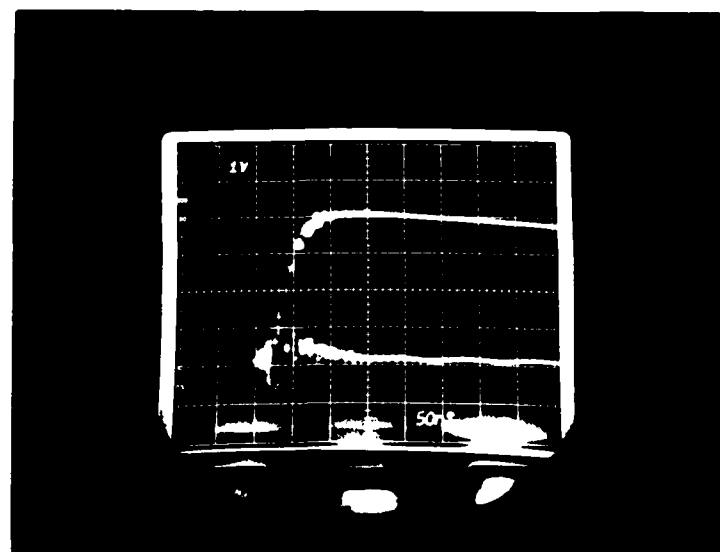


Date	5-30-85
Test Point	21-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V)mv/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	422



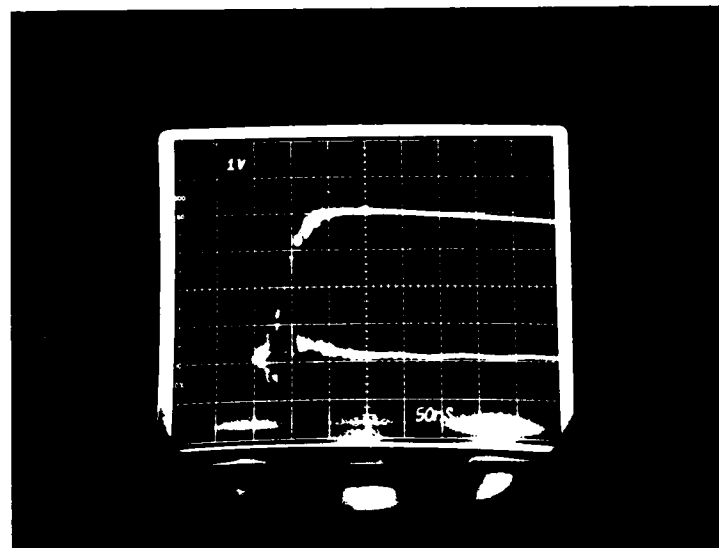
422

Date	5-30-85
Test Point	21R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V)mv/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	423



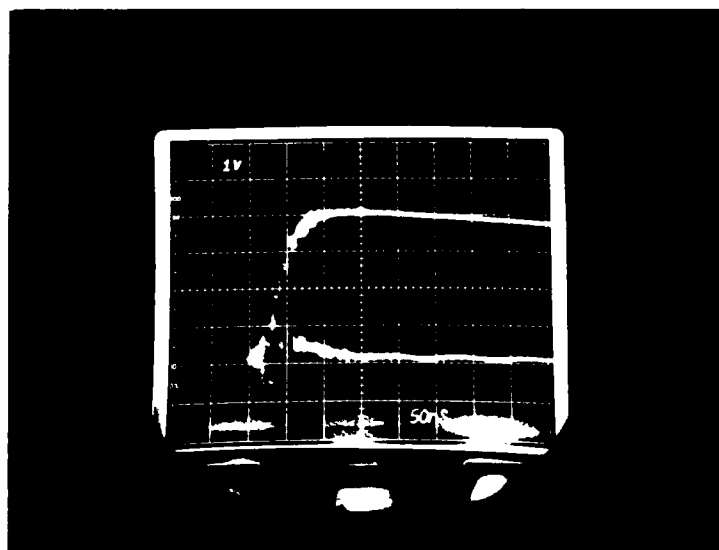
423

Date	5-30-85
Test Point	21-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	424



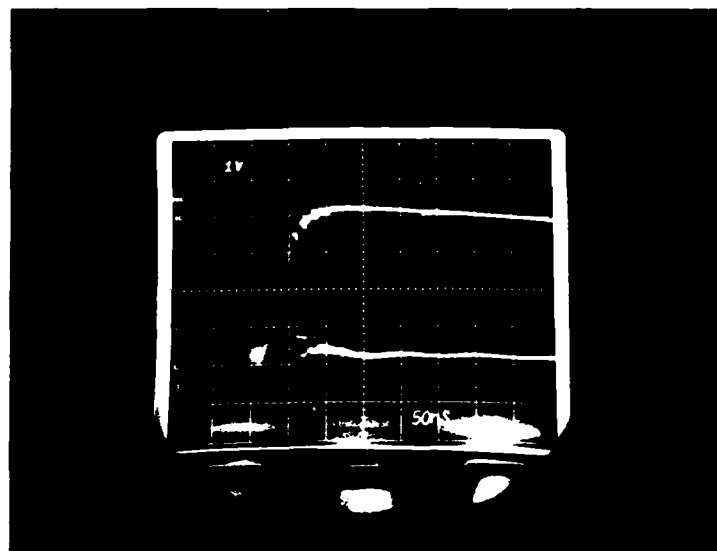
424

Date	5-30-85
Test Point	21-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	425



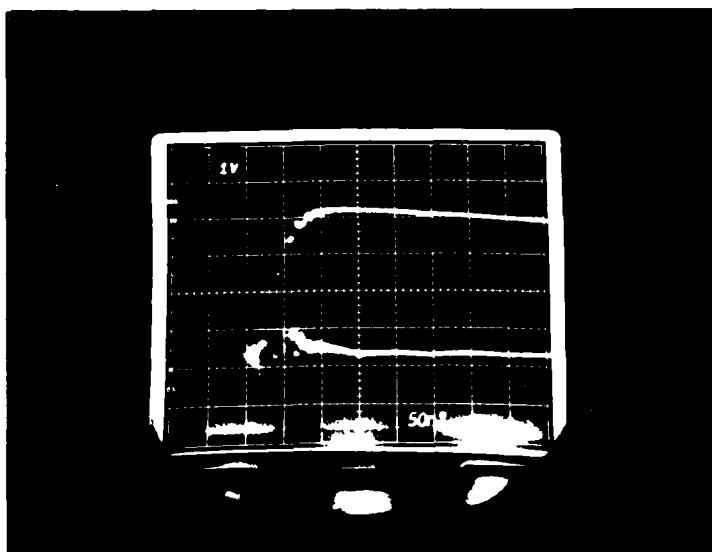
425

Date	5-30-85
Test Point	21-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	432



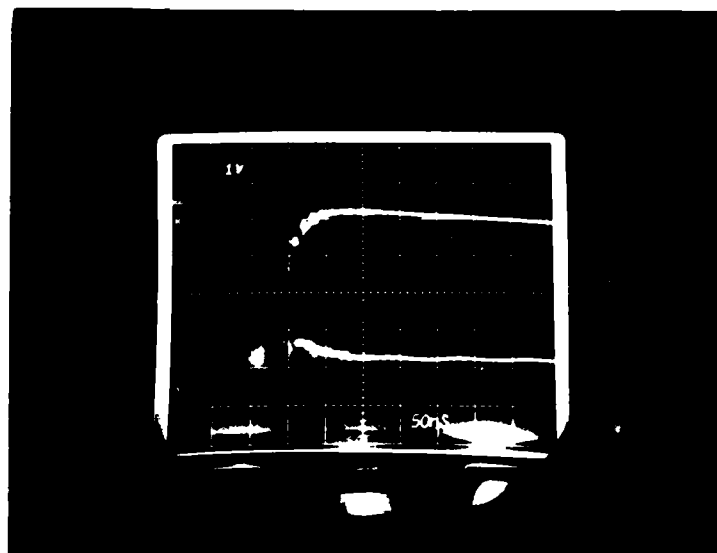
432

Date	5-30-85
Test Point	21R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	433



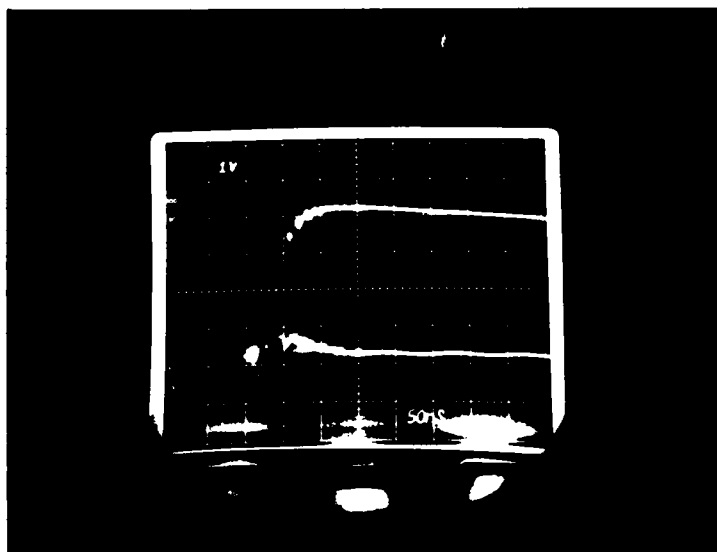
433

Date	5-30-85
Test Point	21-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	434



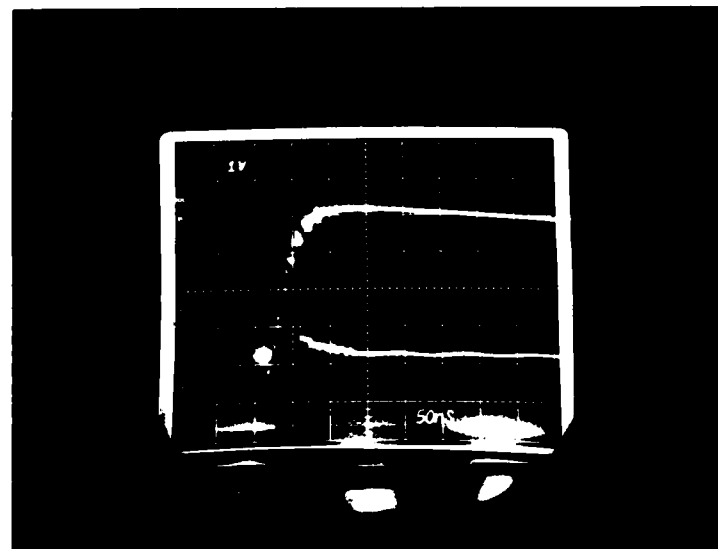
434

Date	5-30-85
Test Point	21R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	435

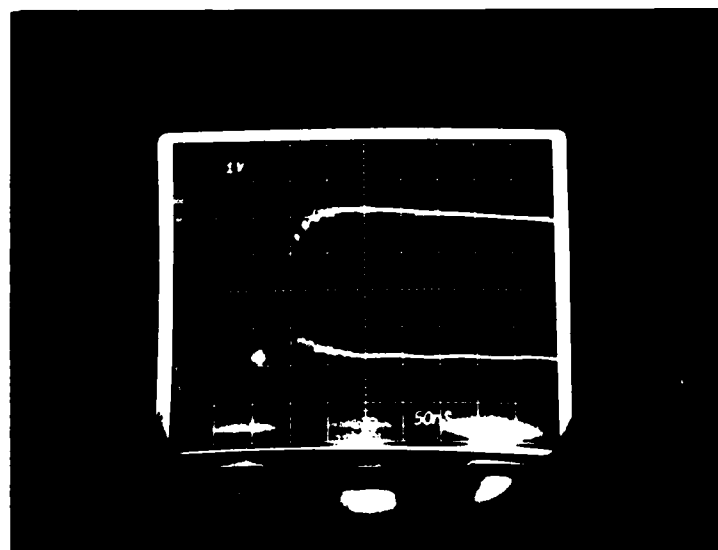


435

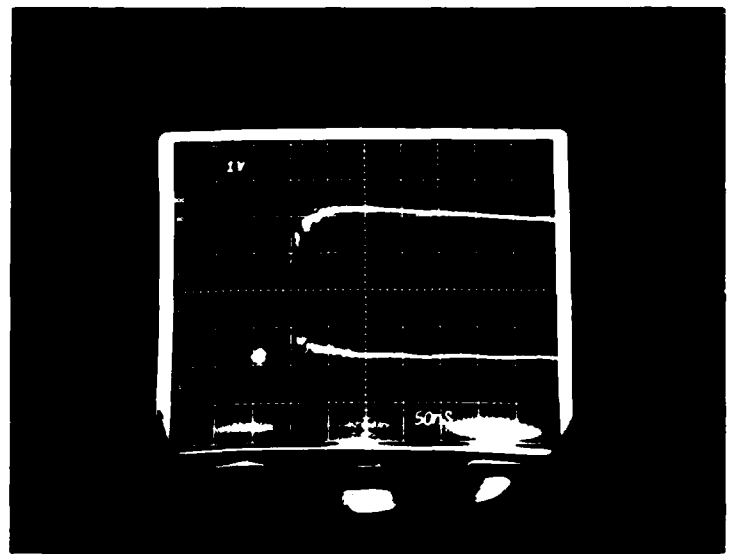
Date	5-30-85
Test Point	23-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	428



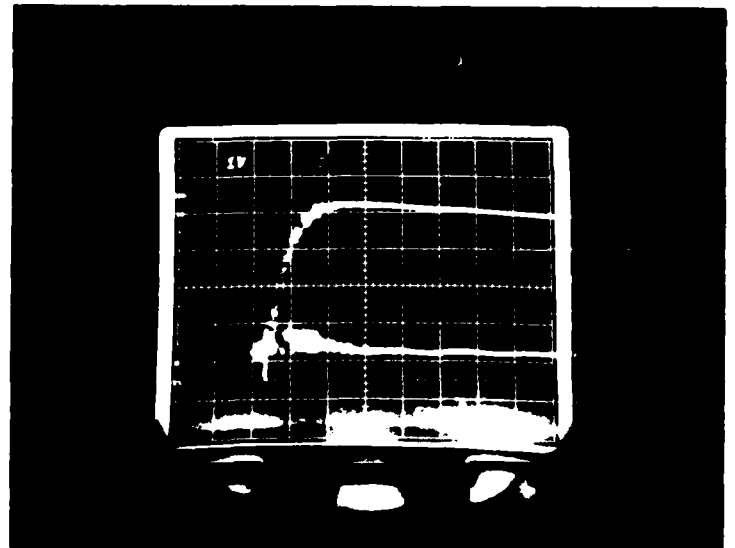
Date	5-30-85
Test Point	23R CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	429



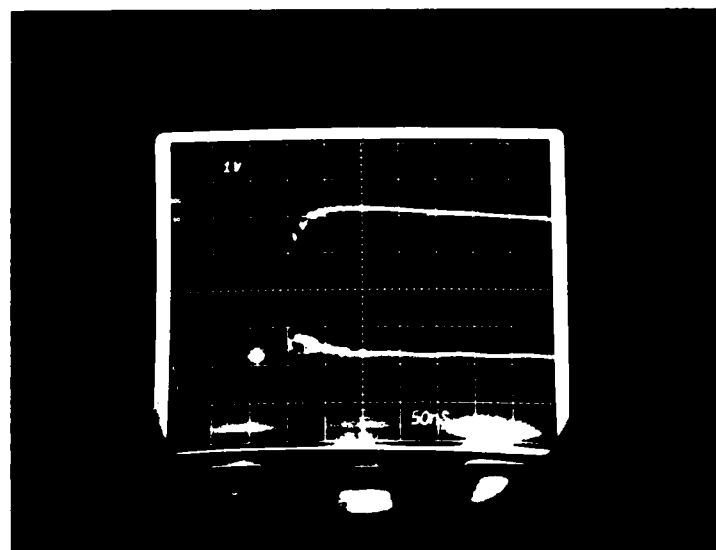
Date	5-30-85
Test Point	23-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	N(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500 V
Data Link	
Comments:	430



Date	5-30-85
Test Point	23R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	431

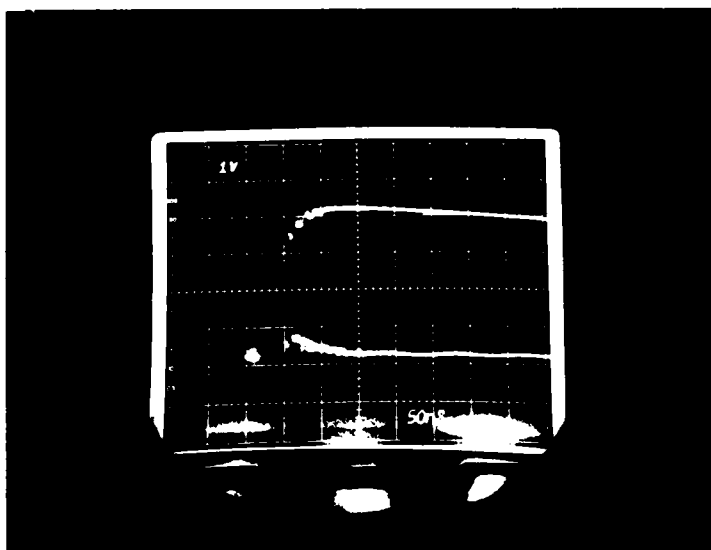


Date	5-30-85		
Test Point	23-CL-1/10-C		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+4500V		
Data Link			
Comments:	436		



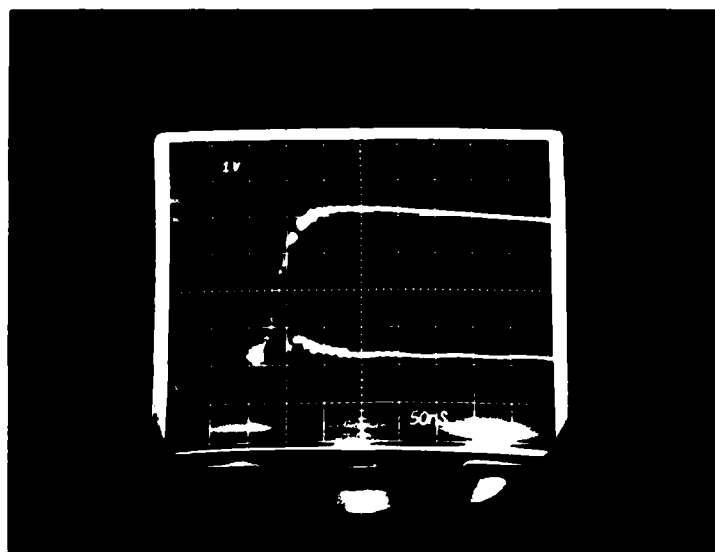
436

Date	5-30-85		
Test Point	23R-CL-1/10-C		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500V		
Data Link			
Comments:	437		



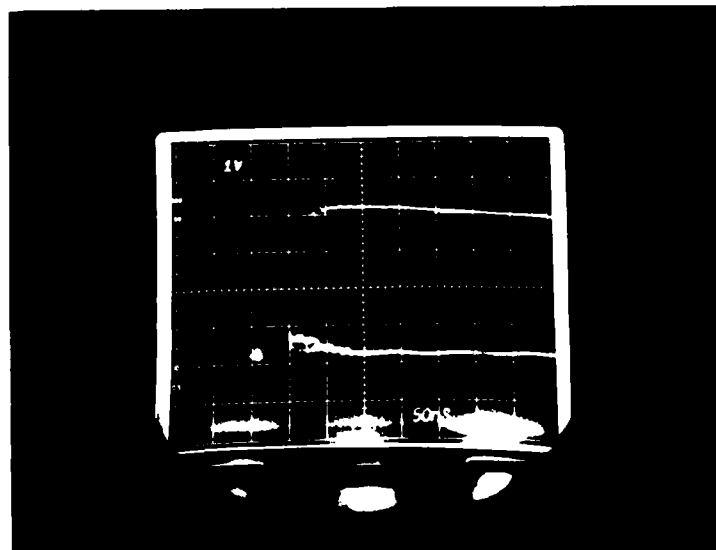
437

Date	5-30-85
Test Point	23-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	438



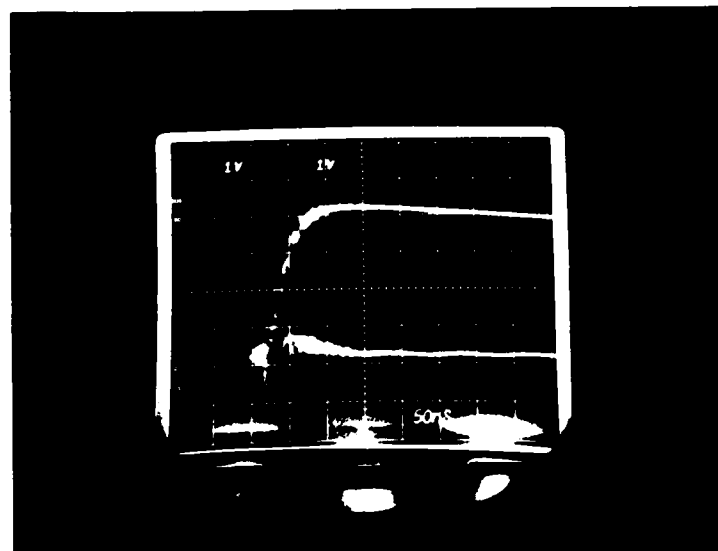
438

Date	5-30-85
Test Point	23R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	439



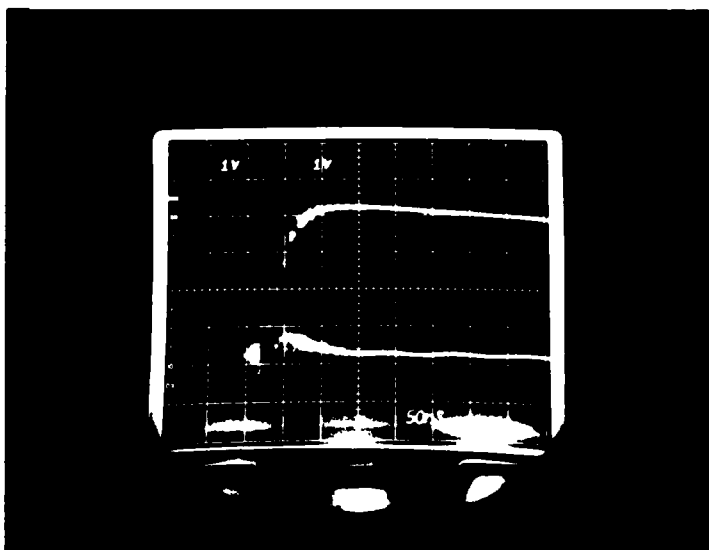
439

Date	5-30-85		
Test Point	23-CL-1/10-E		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900)V	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+4500		
Data Link			
Comments:	440		



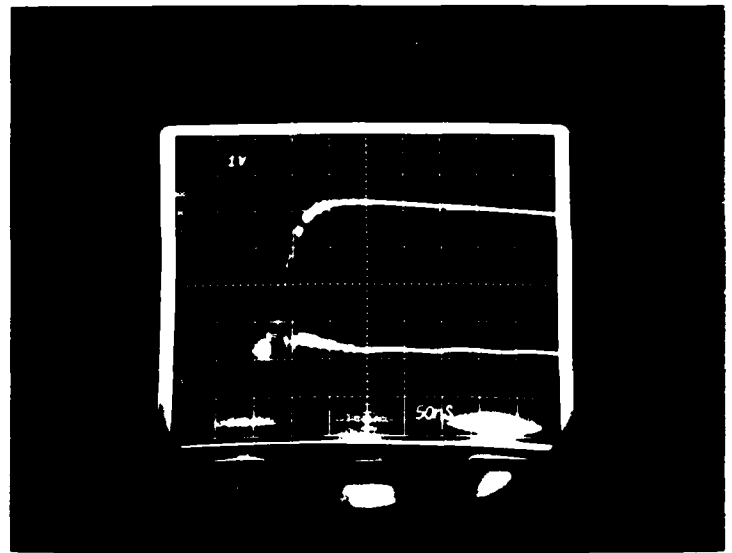
440

Date	5-30-85		
Test Point	23R-CL-1/10-E		
Amplification	dB		
Attenuation	20	dB	
Horizontal	1V(1900)	mV/div	1
Vertical		mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500V		
Data Link			
Comments:	441		



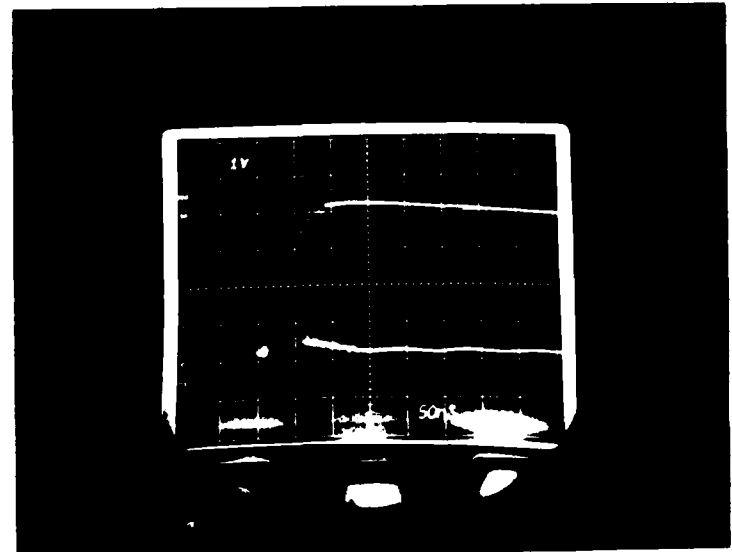
441

Date	5-30-85
Test Point	32-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) μ V/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	442



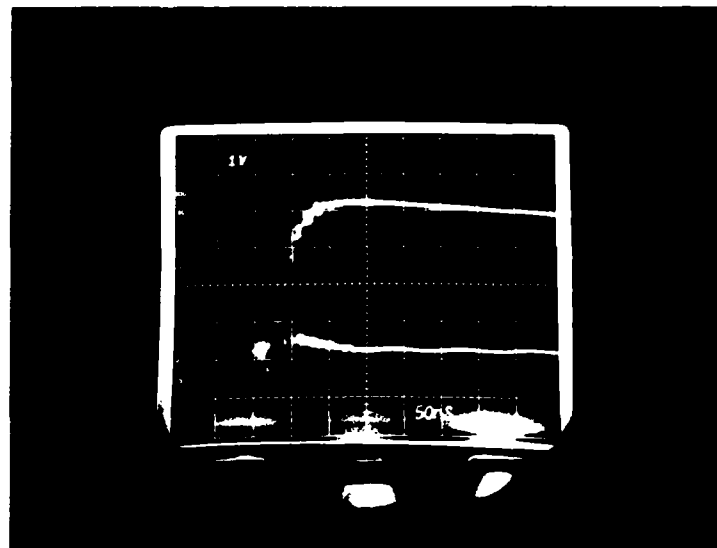
442

Date	5-30-85
Test Point	32R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1900V) μ V/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	443



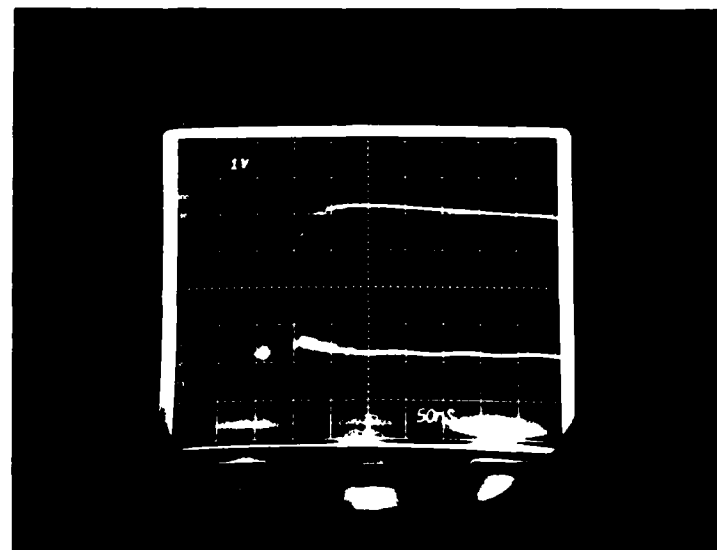
443

Date	5-30-85	
Test Point	32-CL-1/10-13	
Amplification	dB	
Attenuation	20	dB
Horizontal	50	ns/div 1
Vertical	1V (1900)	mV/div 1
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level	+4500	
Data Link		
Comments:	444	



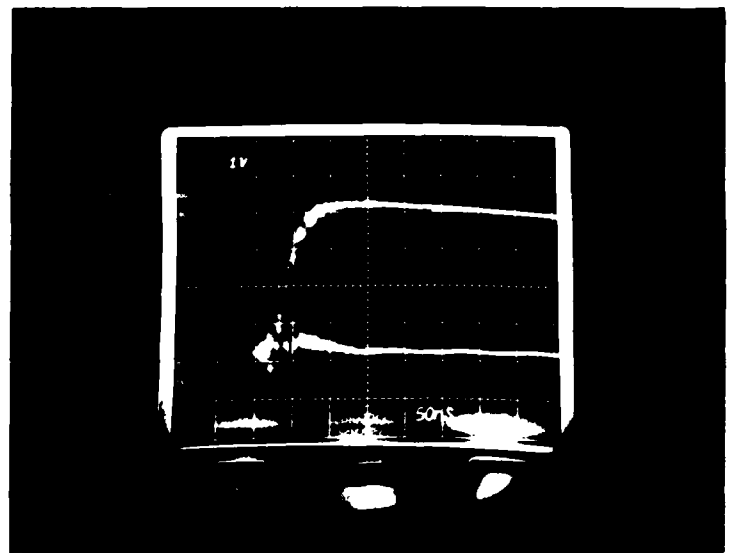
444

Date	5-30-85	
Test Point	32R-CL-1/10-B	
Amplification	dB	
Attenuation	20	dB
Horizontal	50	ns/div 1
Vertical	1V (1900)	mV/div 1
Horizontal	ns/div 2	
Vertical	ns/div 2	
Configuration		
Pulser Level	-4500V	
Data Link		
Comments:	445	



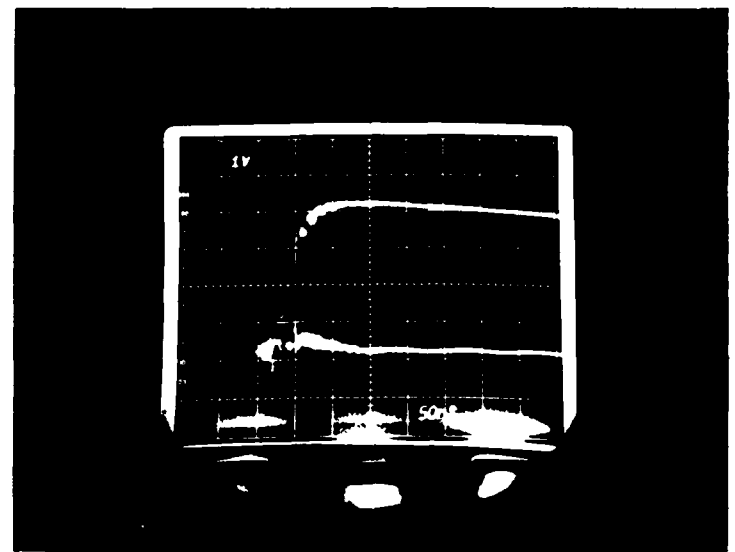
445

Date	5-30-85
Test Point	32-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500
Data Link	
Comments:	446



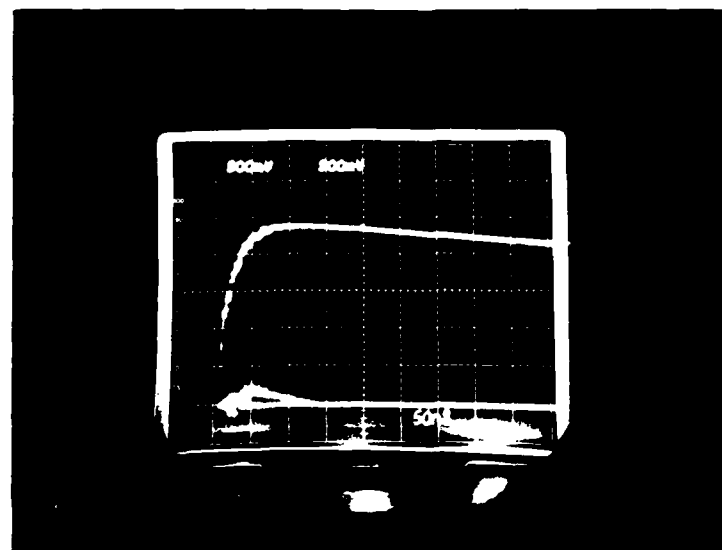
446

Date	5-30-85
Test Point	32R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500
Data Link	
Comments:	447

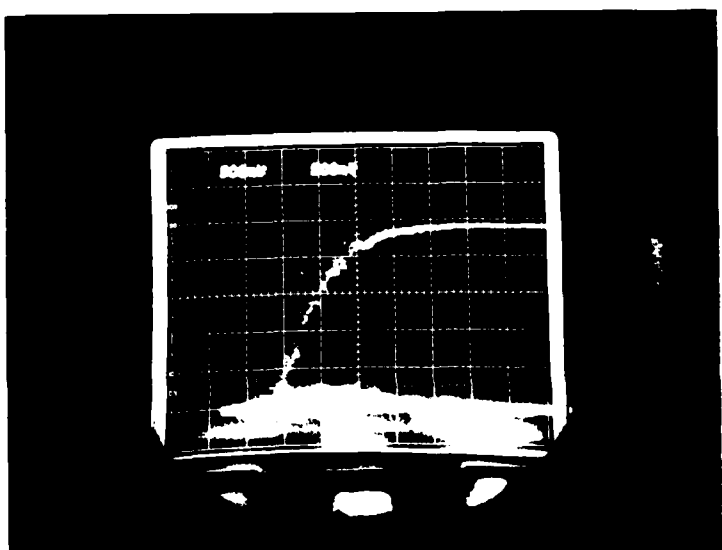


447

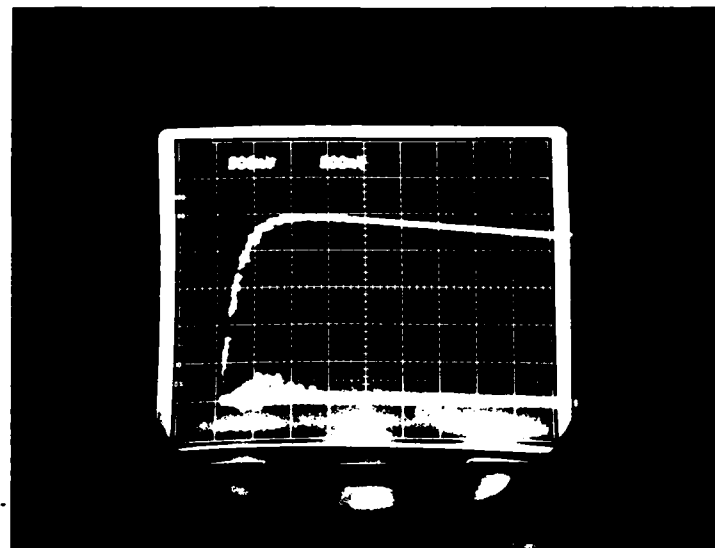
Date	6-3-85
Test Point	32-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	513



Date	6-3-85
Test Point	32R-CL-110-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	514

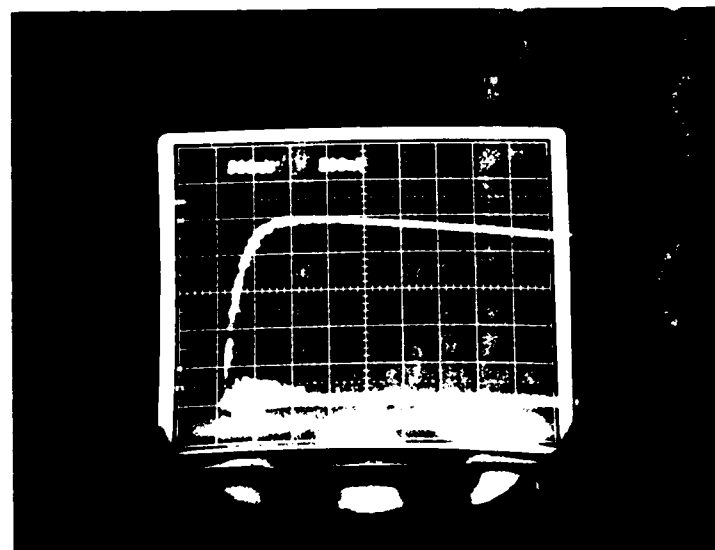


Date	6-3-85
Test Point	32-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	515



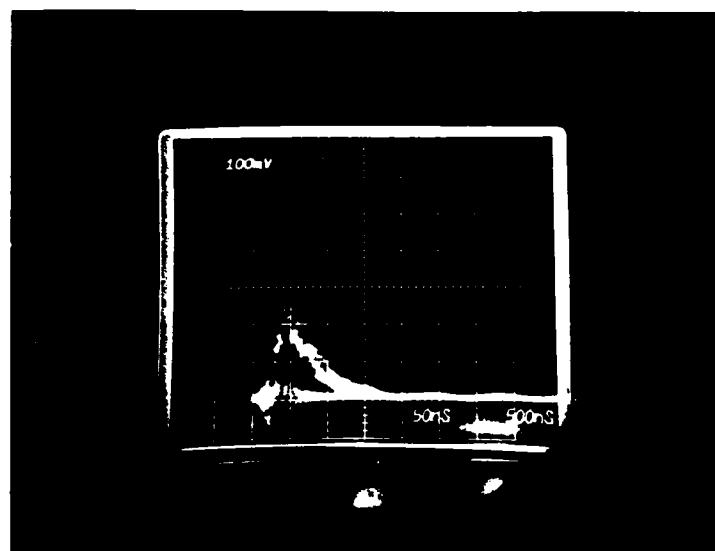
215

Date	6-3-85
Test Point	32R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	



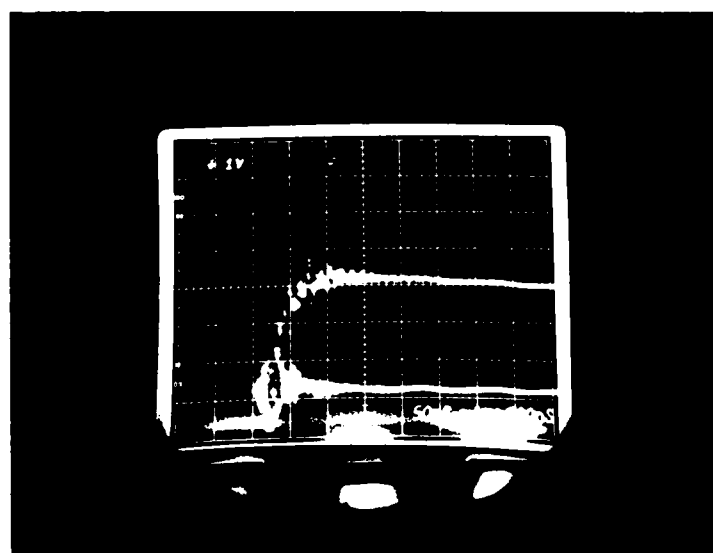
215

Date	5-29-85
Test Point	36-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1V (190V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	376
.1V/DIV (190V/DIV)	



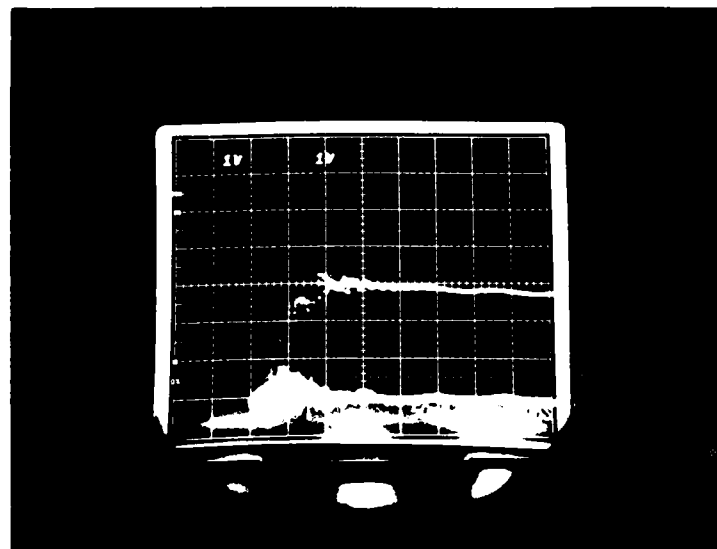
376

Date	5-29-85
Test Point	36R-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1.0V (1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	377



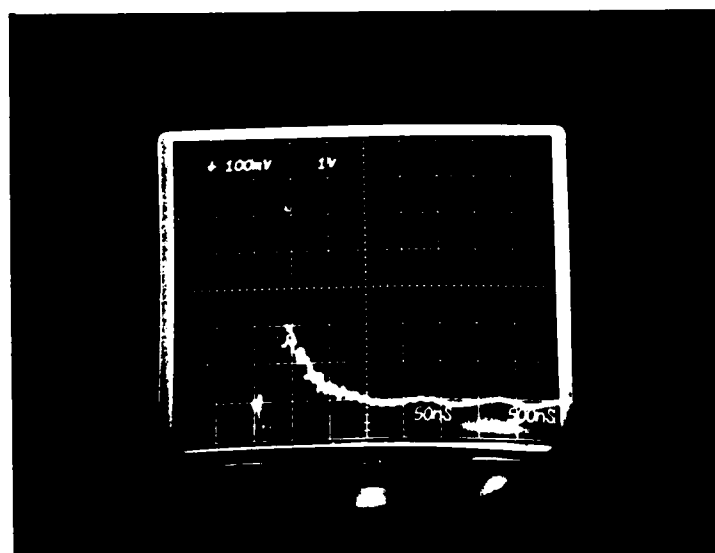
377

Date	5-29-85
Test Point	37-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1.0V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	378



378

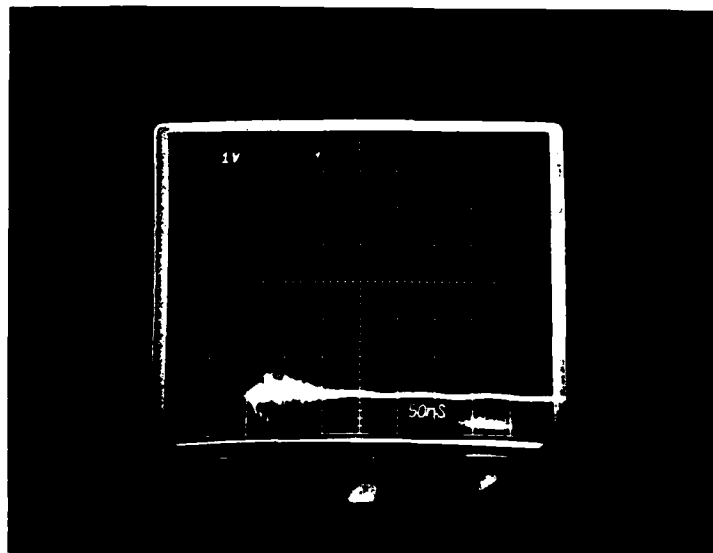
Date	5-29-85
Test Point	37R-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.1V(170V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4500V
Data Link	
Comments:	379



379

Date 5-29-85
 Test Point 38-CL-1/10-Ø
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 1V (1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4500V
 Data Link
 Comments:

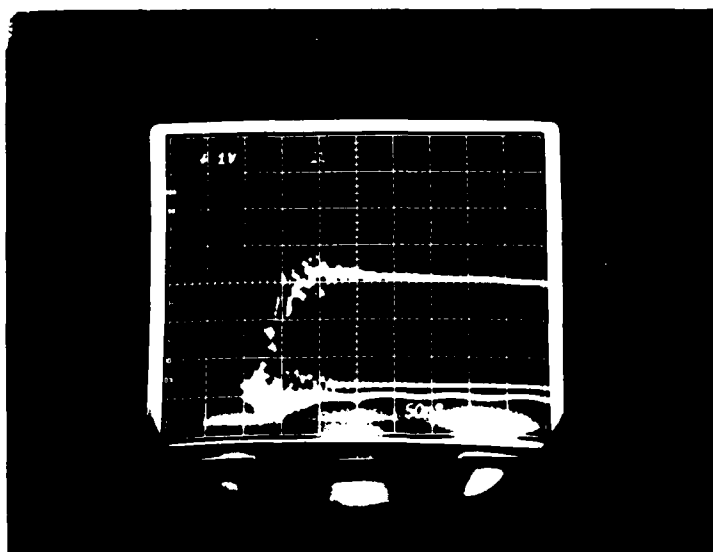
374



374

Date 5-29-85
 Test Point 38R-CL-1/10-Ø
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 1V (1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4500V
 Data Link
 Comments:

375

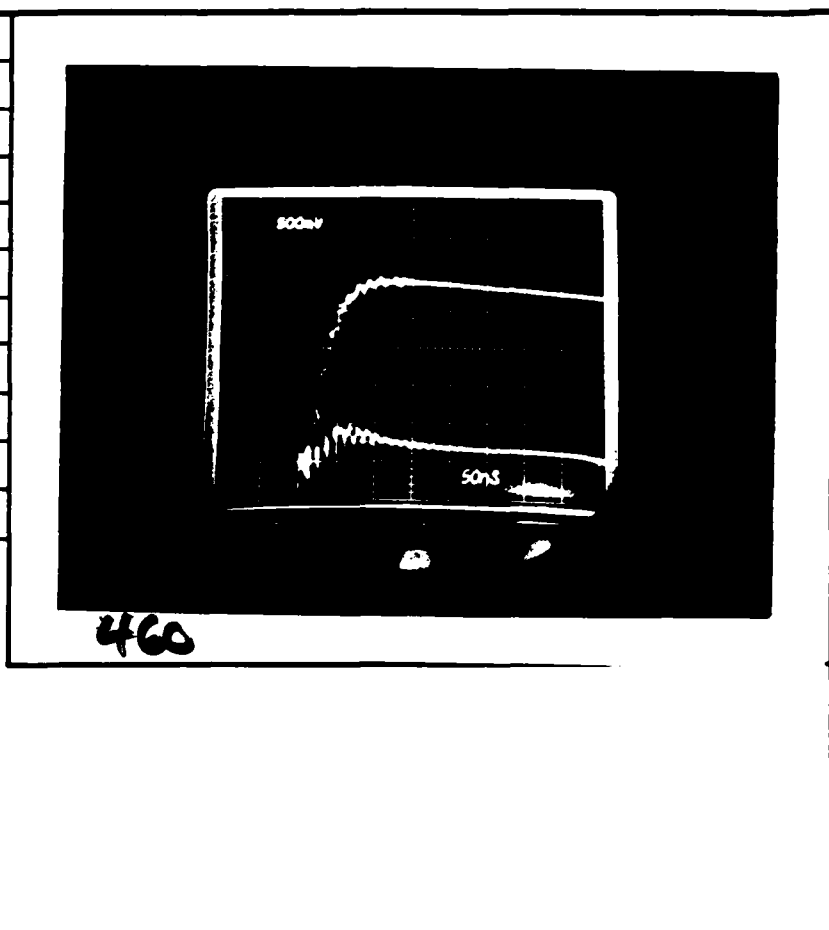


375

Date	5-30-85
Test Point	39-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	460

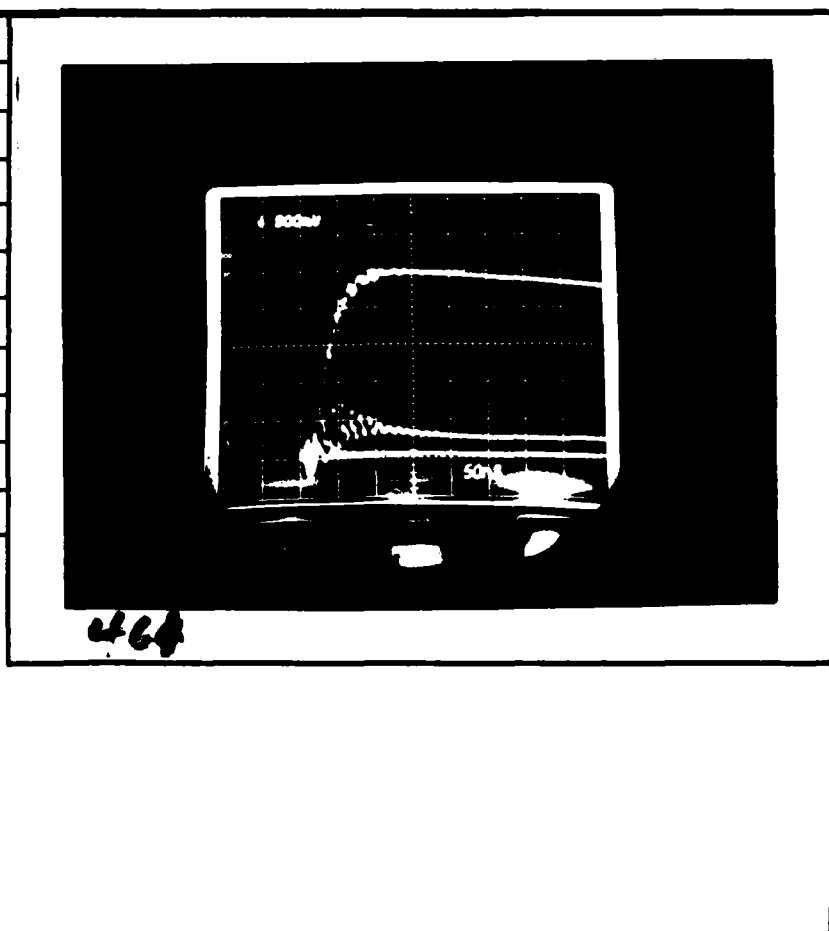
.5V(950V)/DIV

POSITIVE TERMINAL

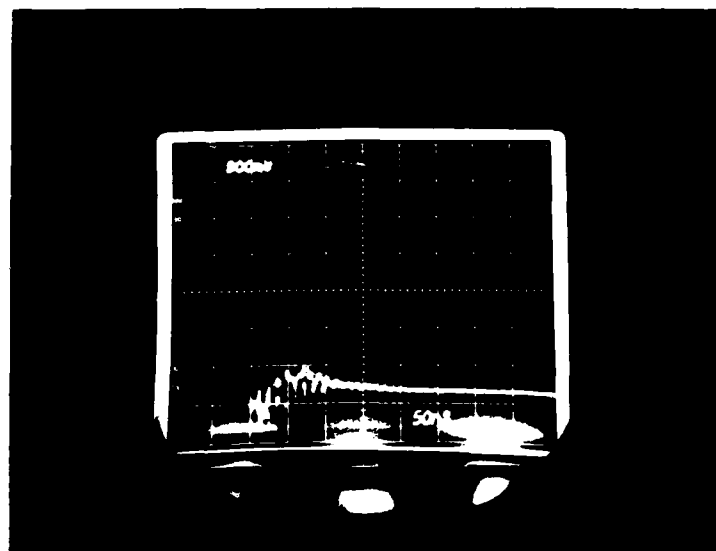


Date	5-30-85
Test Point	39R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	461

POSITIVE TERMINAL

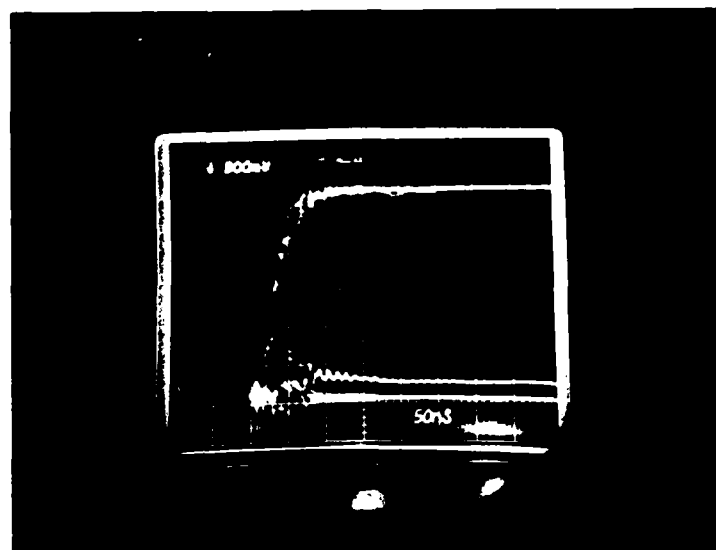


Date	5-30-85
Test Point	39-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	462



462

Date	5-30-85
Test Point	39R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	463



463

Date	6-3-85
Test Point	41-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

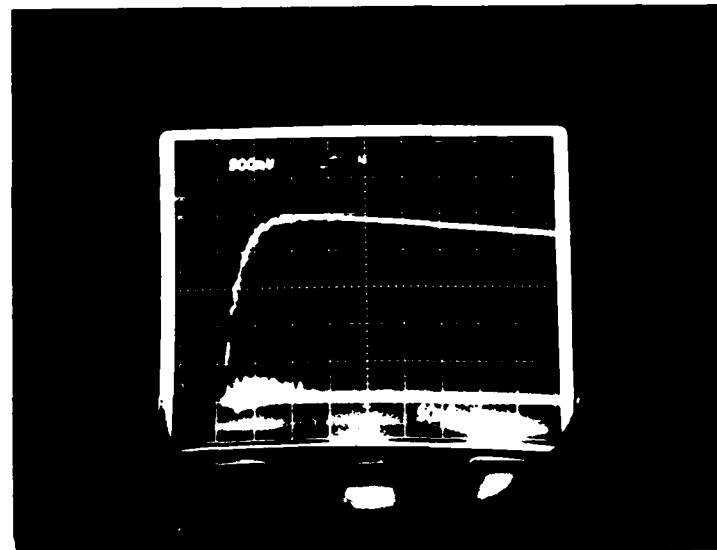
Comments:



517

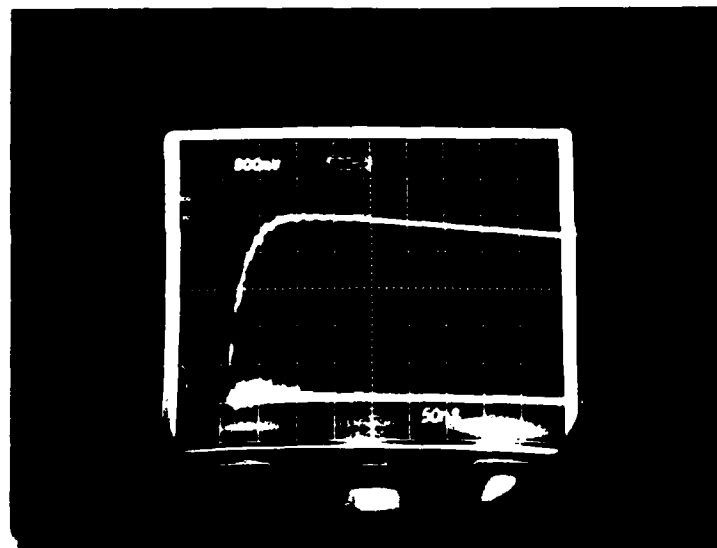
Date	6-3-85
Test Point	41R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

Comments:



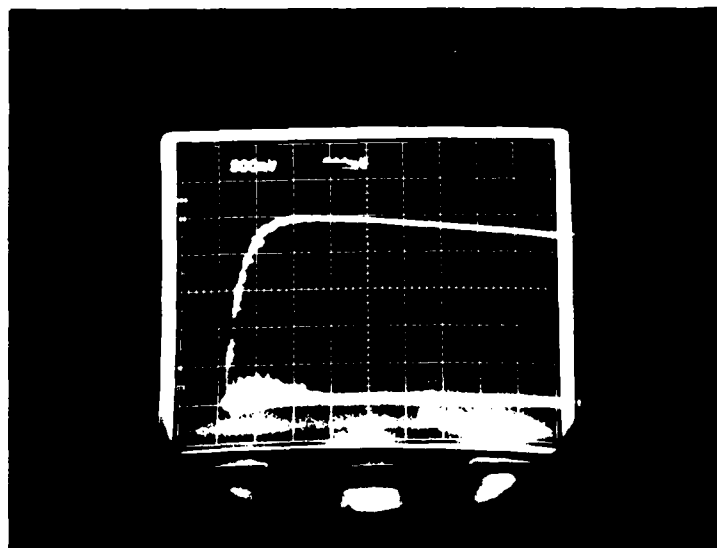
518

Date	6-3-85
Test Point	41-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



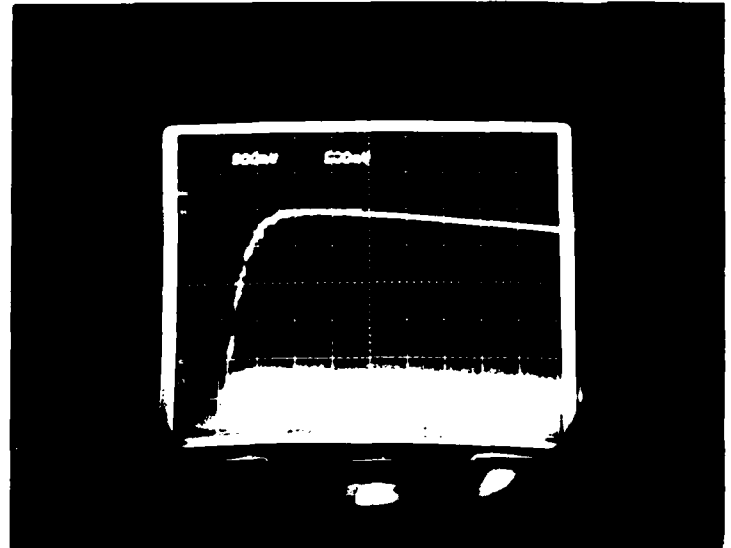
519

Date	6-3-85
Test Point	41R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	

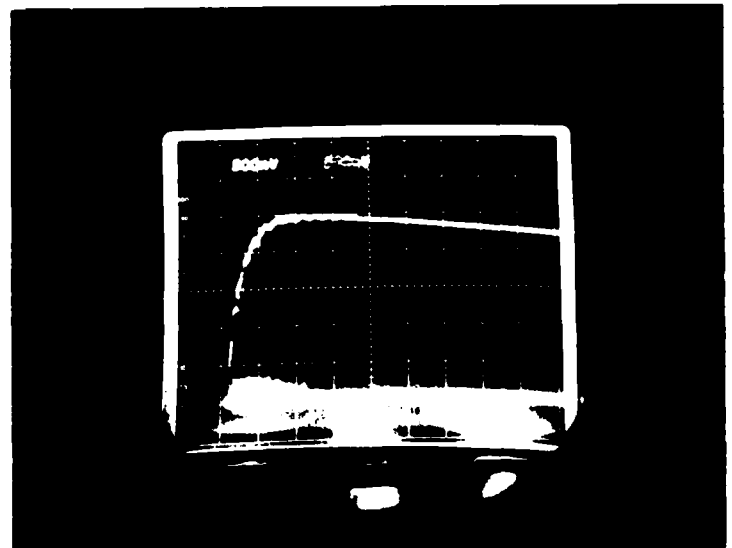


520

Date	6-3-85
Test Point	41-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	521



Date	6-3-85
Test Point	41R-CL-110-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	522

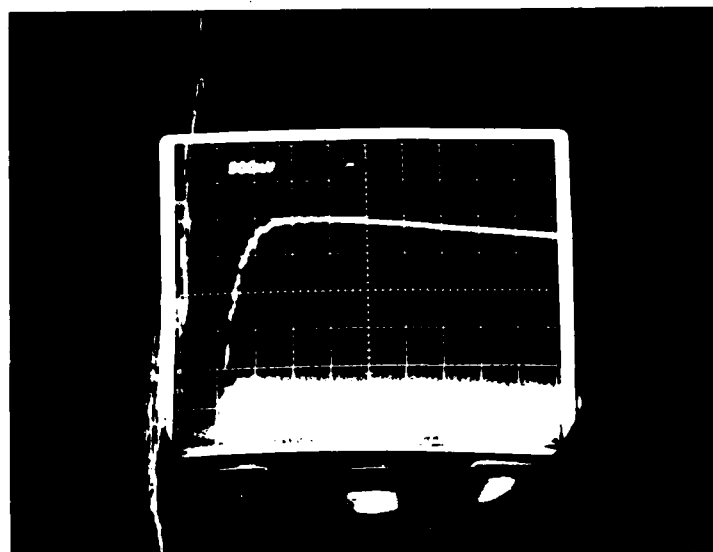


Date 6-3-85
 Test Point 41-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level + 4500V
 Data Link
 Comments: 523



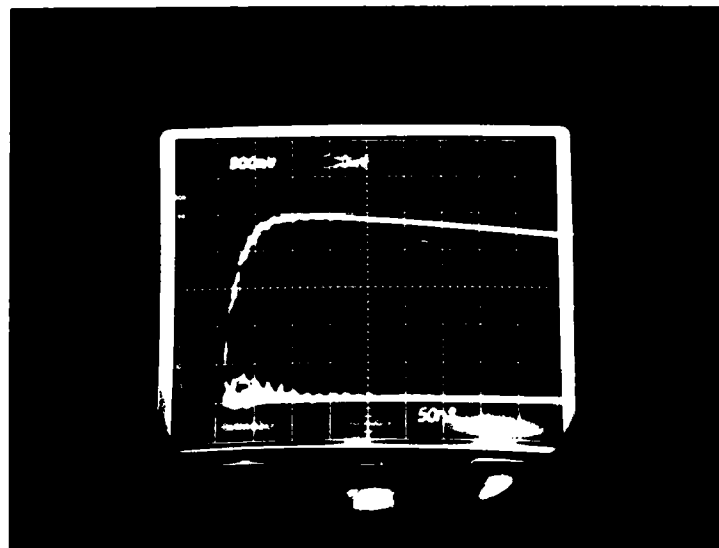
523

Date 6-3-85
 Test Point 41R-CL-1/10-D
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level - 4500V
 Data Link
 Comments: 524



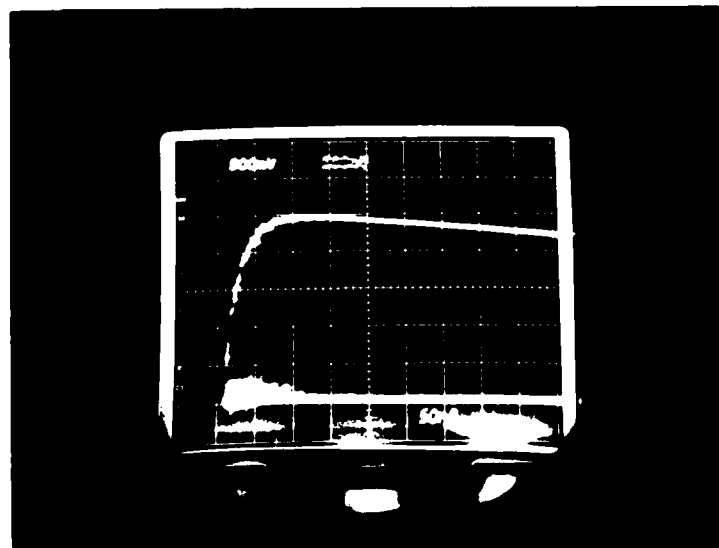
524

Date	6-3-85
Test Point	41-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	525



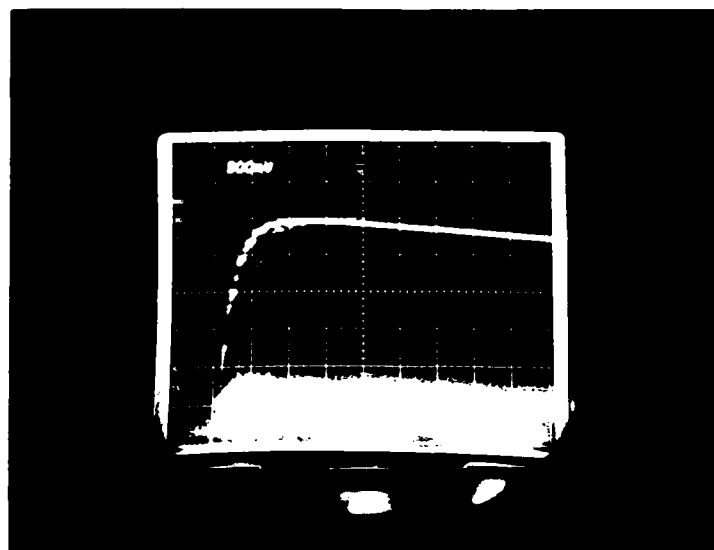
525

Date	6-3-85
Test Point	41R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



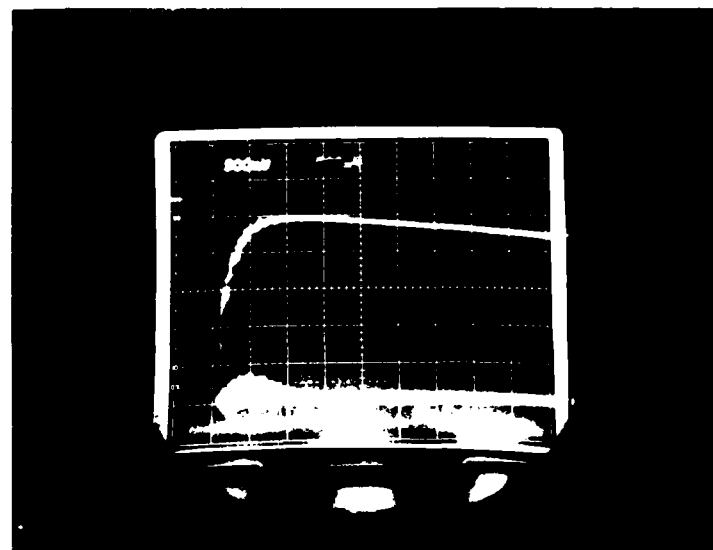
52C

Date	5-3-85
Test Point	44-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	527



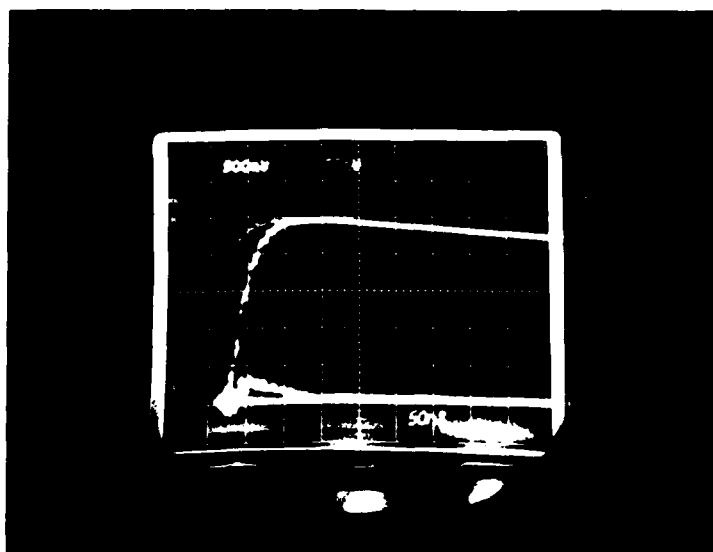
527

Date	6-3-85
Test Point	44R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

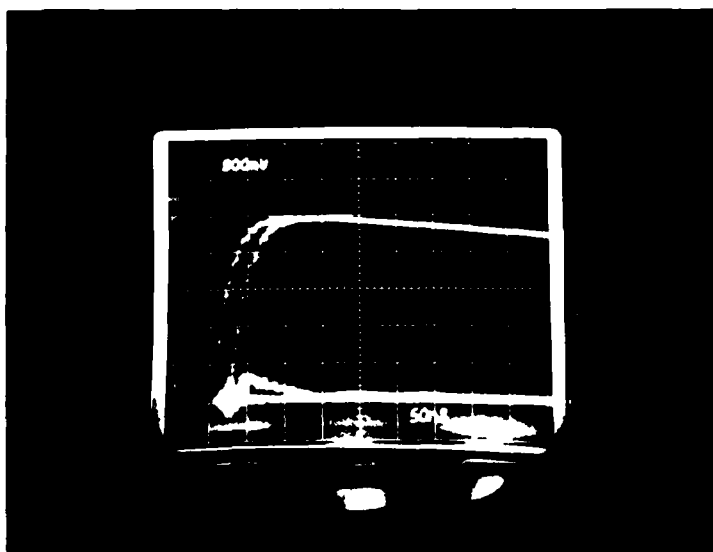


528

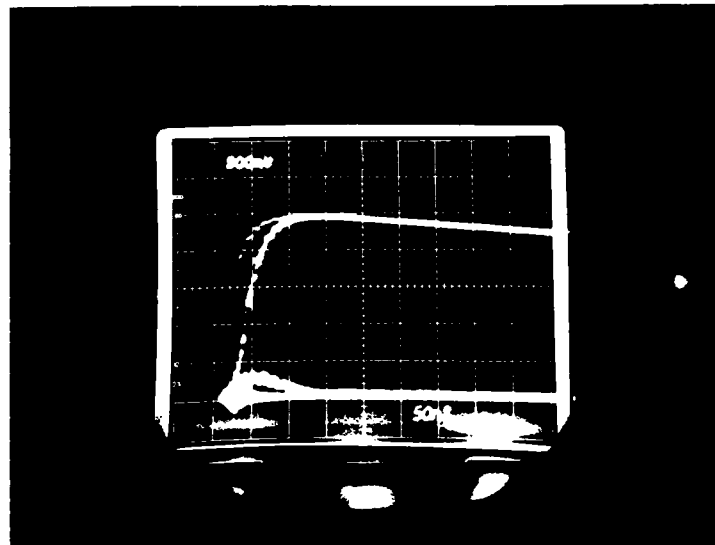
Date	6-3-85
Test Point	44-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	529



Date	6-3-85
Test Point	44R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	530

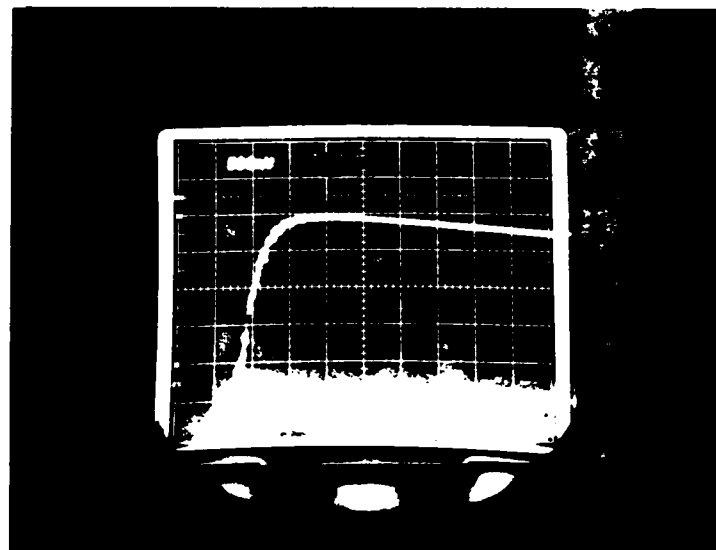


Date	6-3-85
Test Point	44-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500V
Data Link	
Comments:	



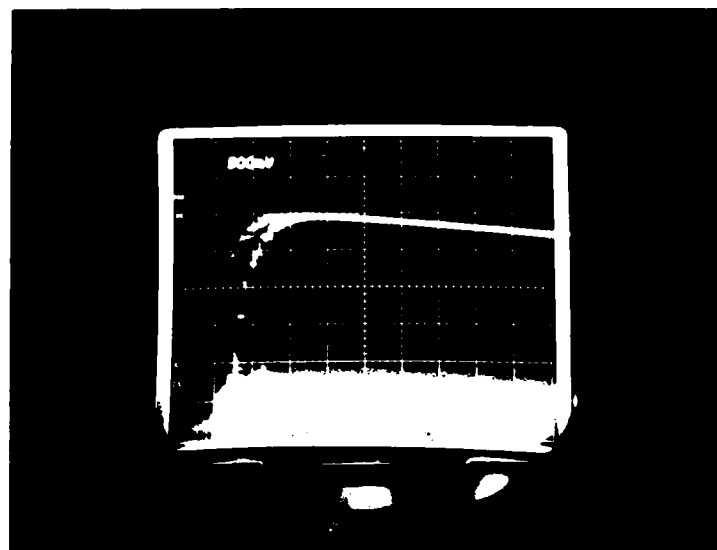
531

Date	6-3-85
Test Point	44R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500V
Data Link	
Comments:	

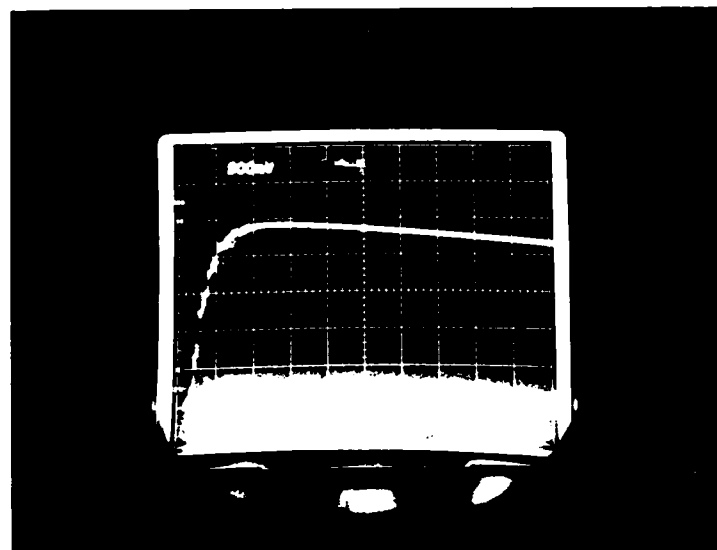


532

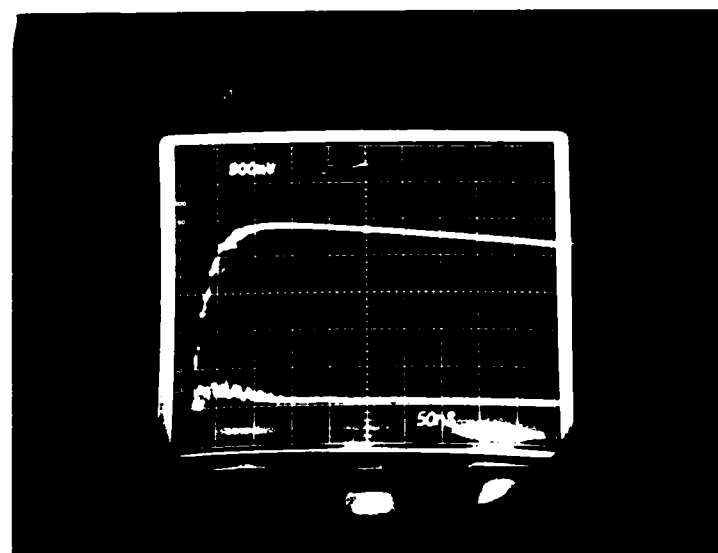
Date	6-3-85		
Test Point	44-CL-1/10-D		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+ 4500 V		
Data Link			
Comments:	53		



Date	6-3-85		
Test Point	44R-CL-1/10-D		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	- 4500V		
Data Link			
Comments:	534		

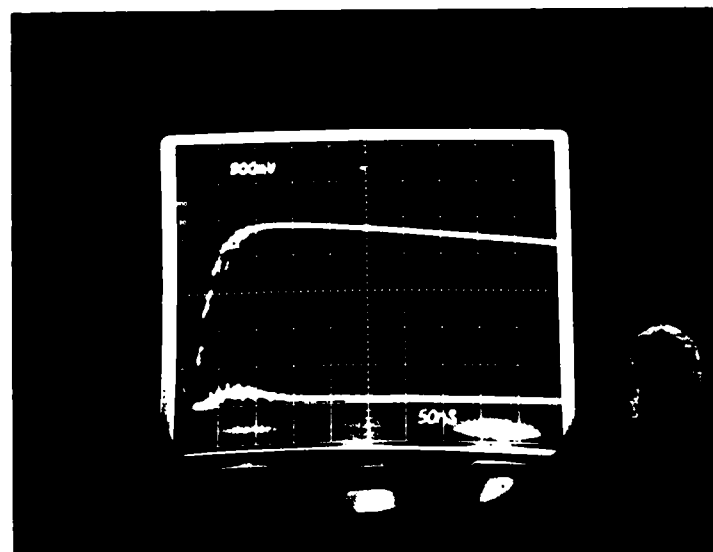


Date	6-3-85
Test Point	44-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	535



535

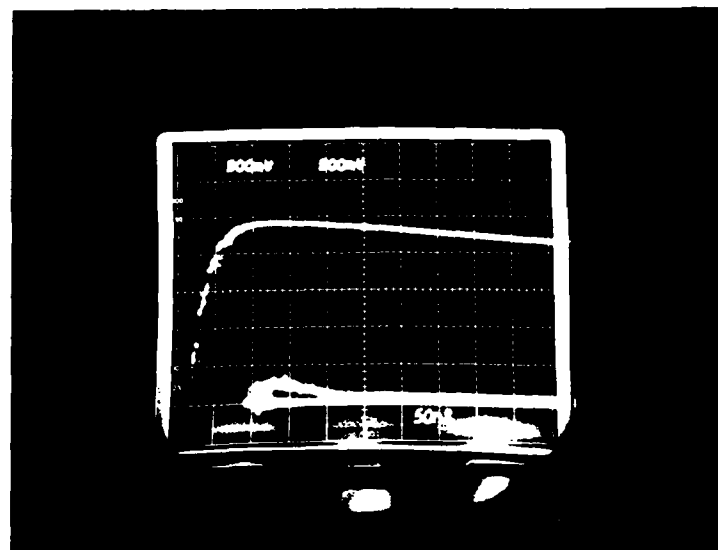
Date	6-3-85
Test Point	44R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	536



536

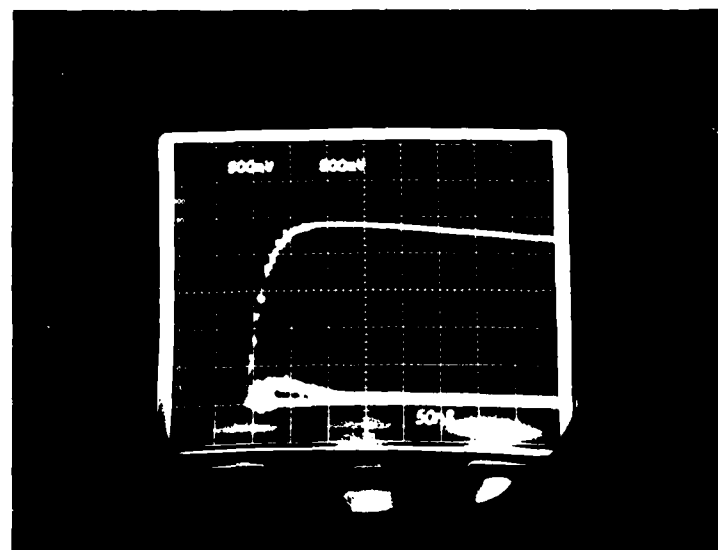
536

Date	6-3-85
Test Point	47-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	

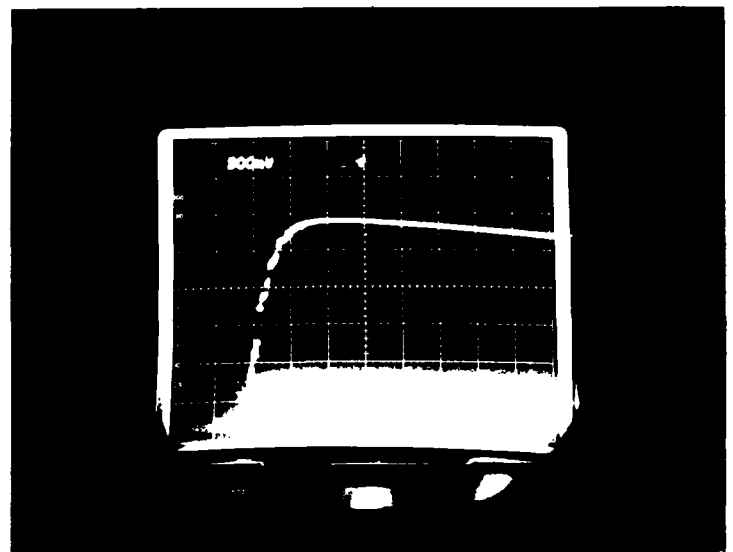


REF + ITEM TRACE ADJUSTED

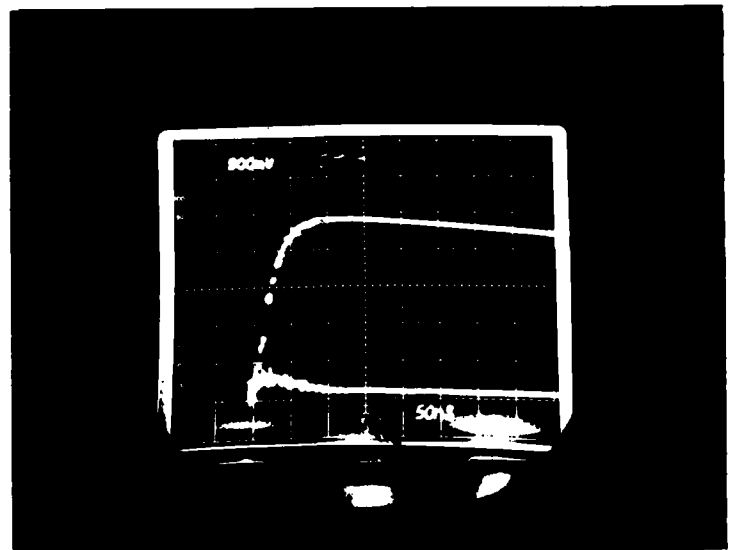
Date	6-3-85
Test Point	47R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



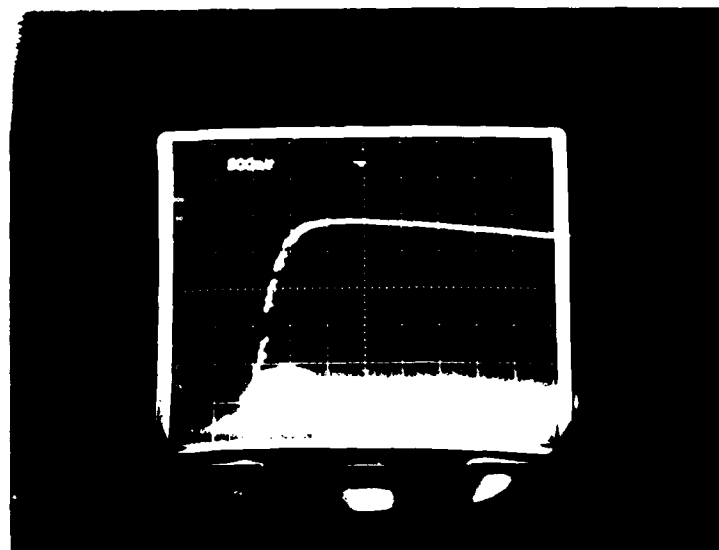
Date	6-3-85
Test Point	47-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



Date	6-3-85
Test Point	47R-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

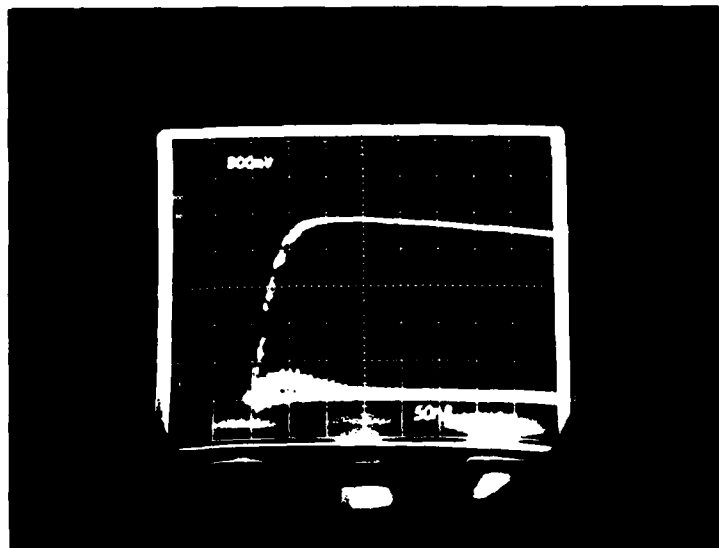


Date	6-3-85
Test Point	47-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4 500 V
Data Link	
Comments:	541



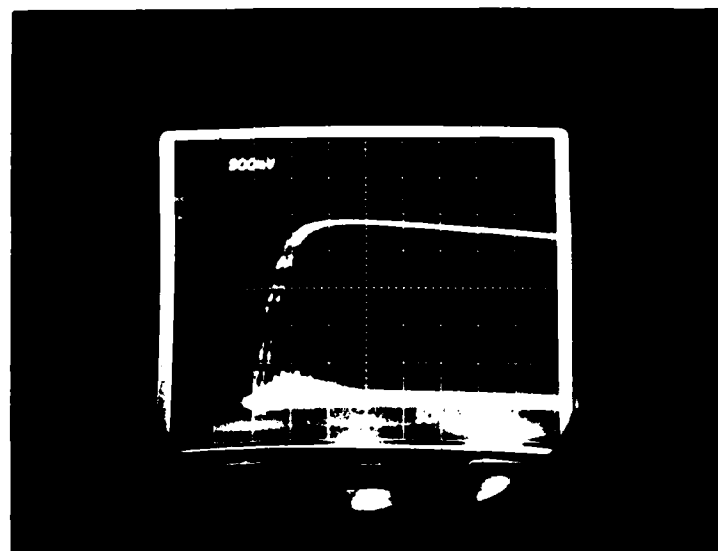
541

Date	6-3-85
Test Point	47R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	542



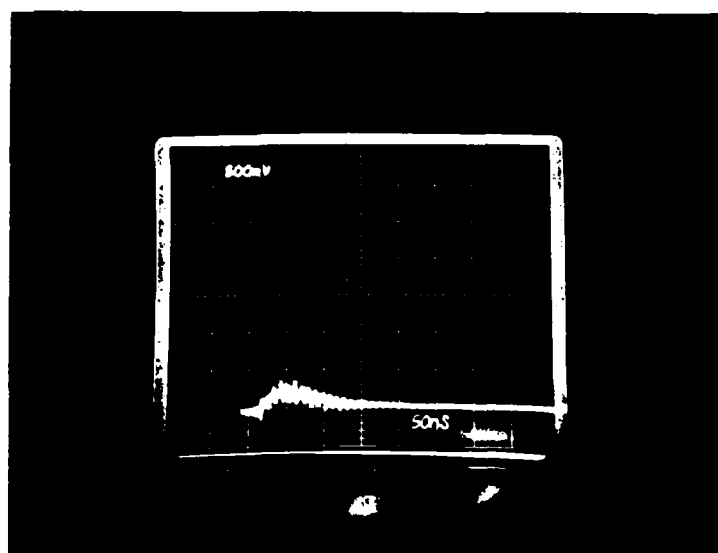
542

Date	6-3-85
Test Point	47-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	543



543

Date	6-3-85
Test Point	47R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	544



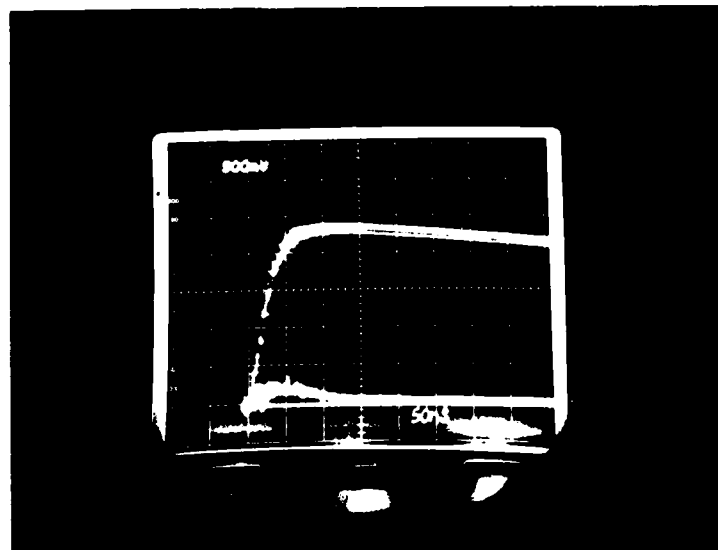
544

NO REF -

Date	6-3-85
Test Point	47-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	

Comments:

575

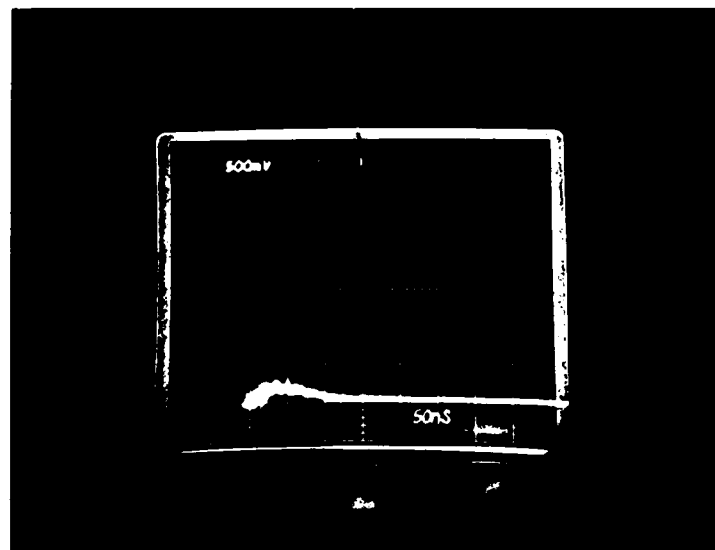


545

Date	6-3-85
Test Point	47R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	

Comments:

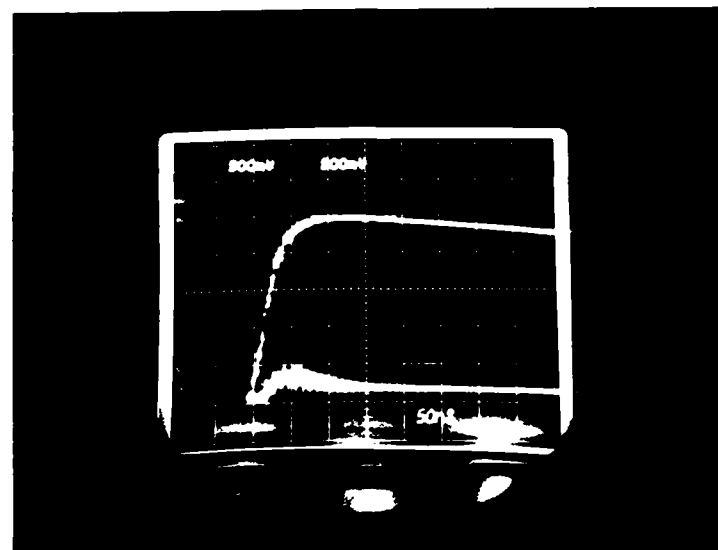
576



546

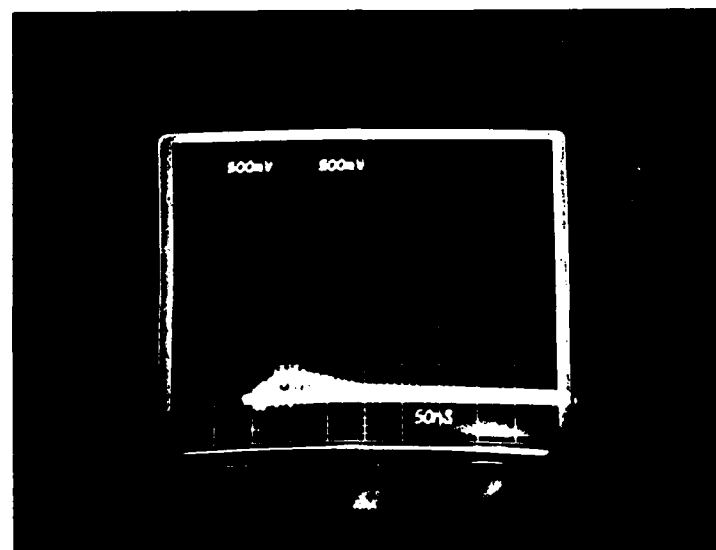
NO RER-

Date	6-3-85
Test Point	50-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	555



555

Date	6-3-85
Test Point	50R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	556



556

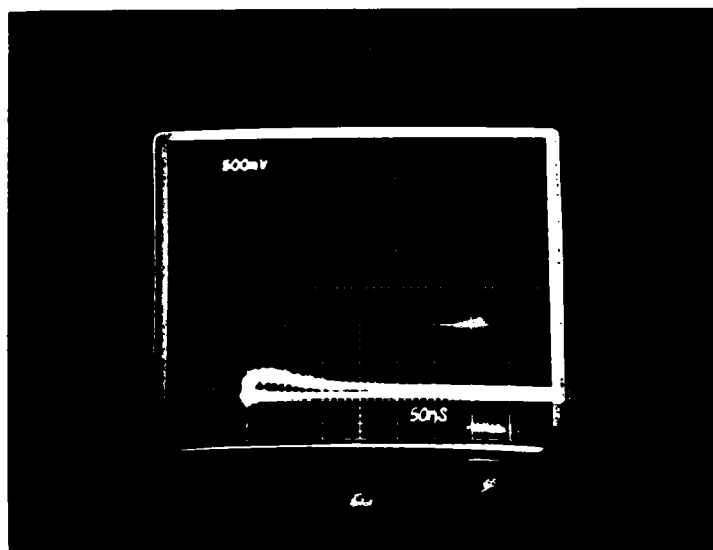
NO REF

Date	6-3-85
Test Point	50-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	553



553

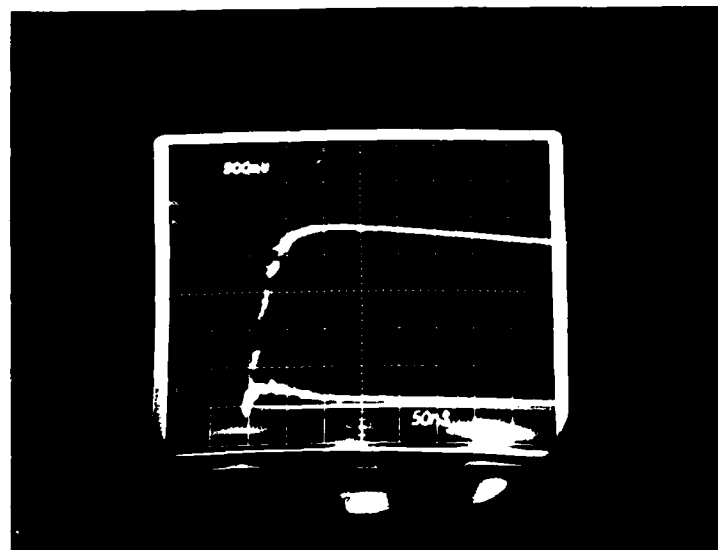
Date	6-3-85
Test Point	50R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	554



554

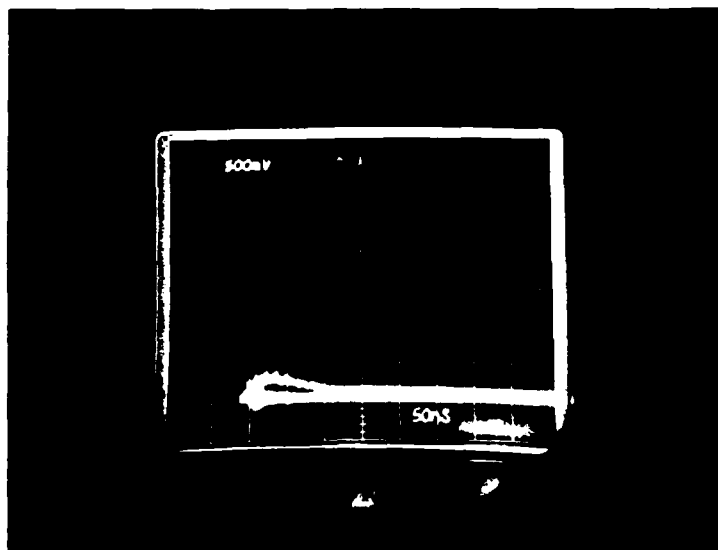
N1 DEF

Date	6-3-85
Test Point	50-CL-4/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	551



551

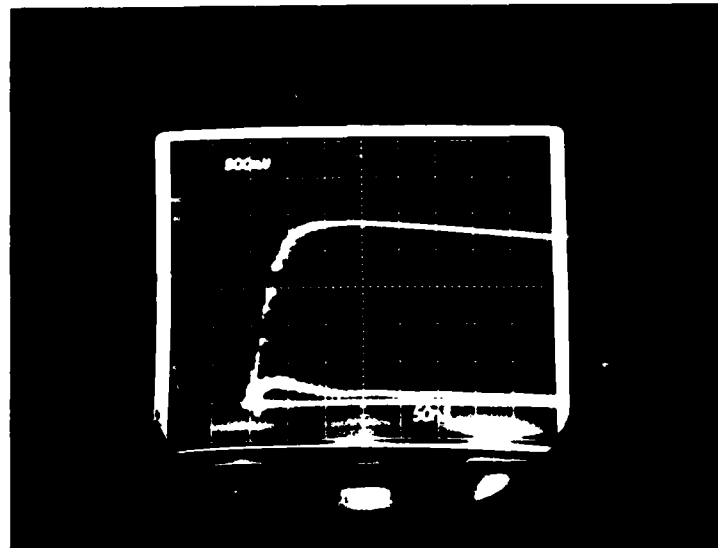
Date	6-3-85
Test Point	50R-CL-4/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	552



552

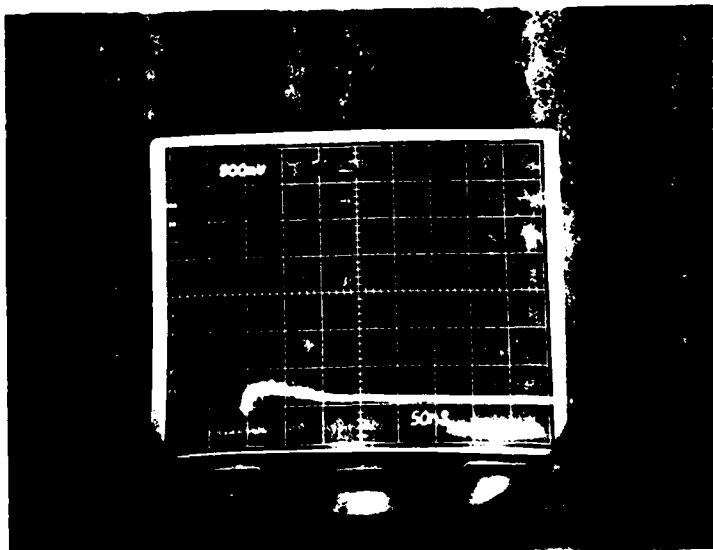
No REP

Date	6-3-85
Test Point	50-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	547



547

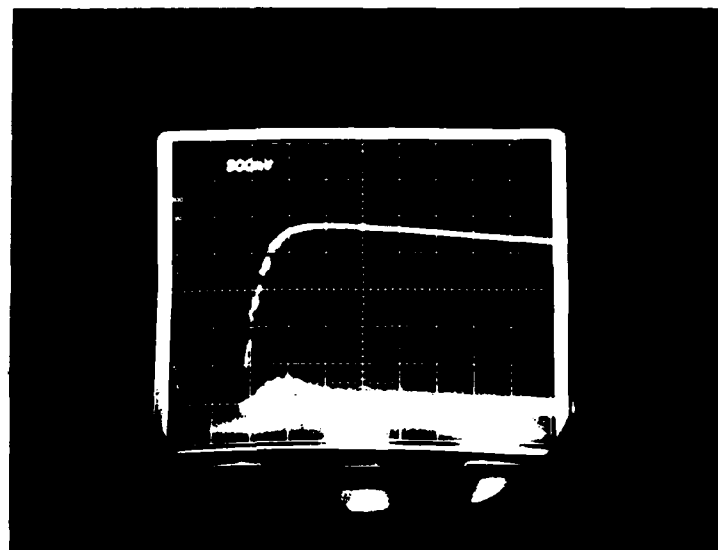
Date	6-3-85
Test Point	50R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	548



548

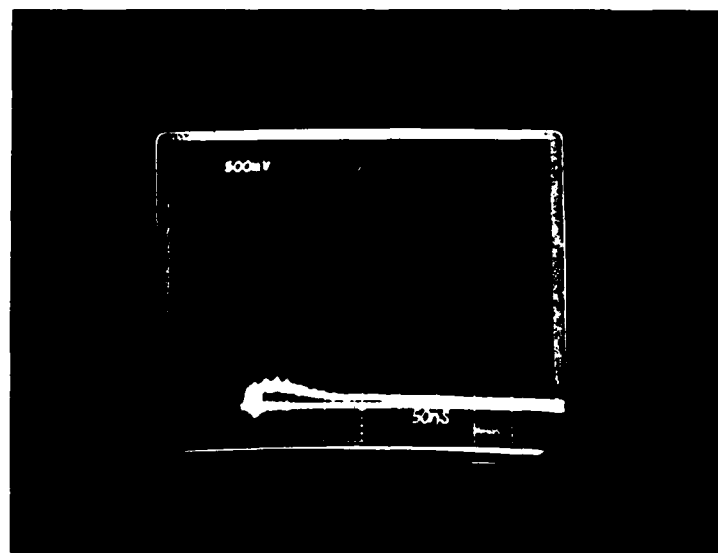
NO REF

Date	6-3-85
Test Point	50-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	54f



54f

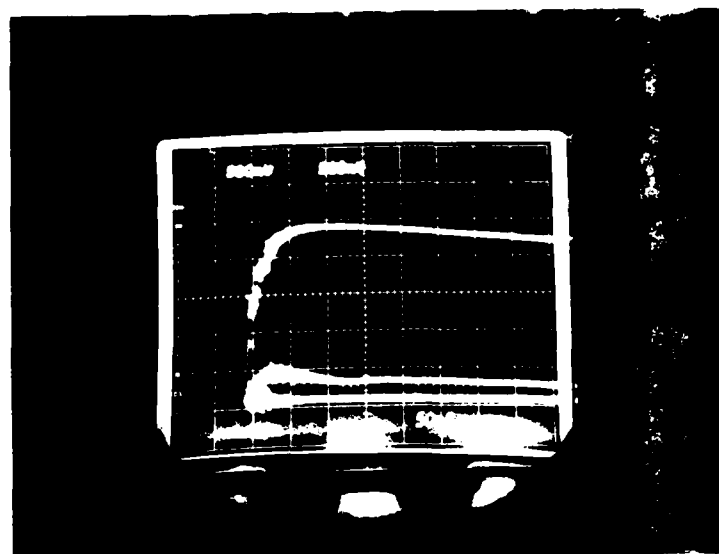
Date	6-3-85
Test Point	50R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



550

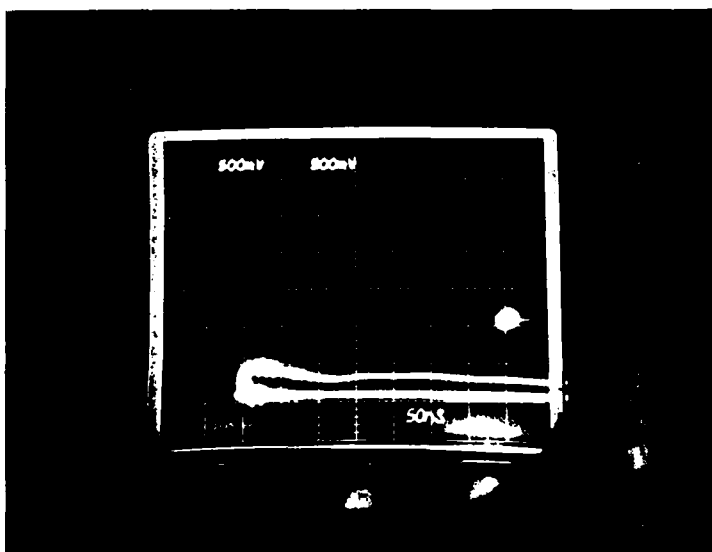
NO REF

Date	6-3-85
Test Point	53-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	565



565

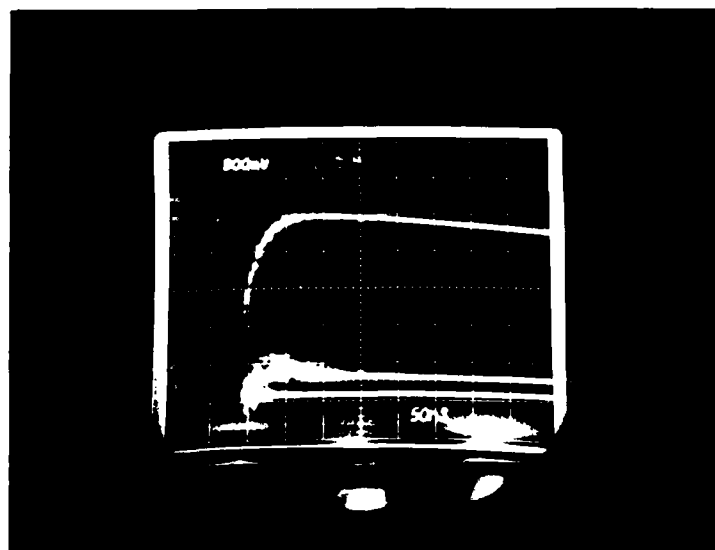
Date	6-3-85
Test Point	53 R-GL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	566



566

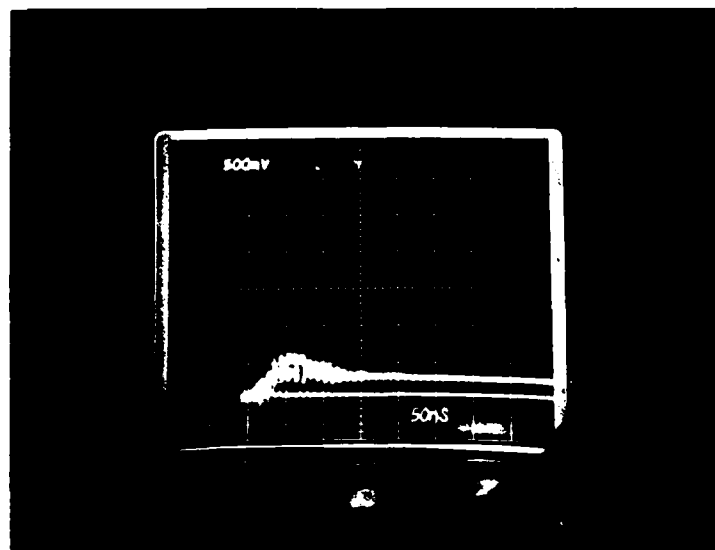
N. PLF-

Date	6-3-85
Test Point	53-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	53 F



563

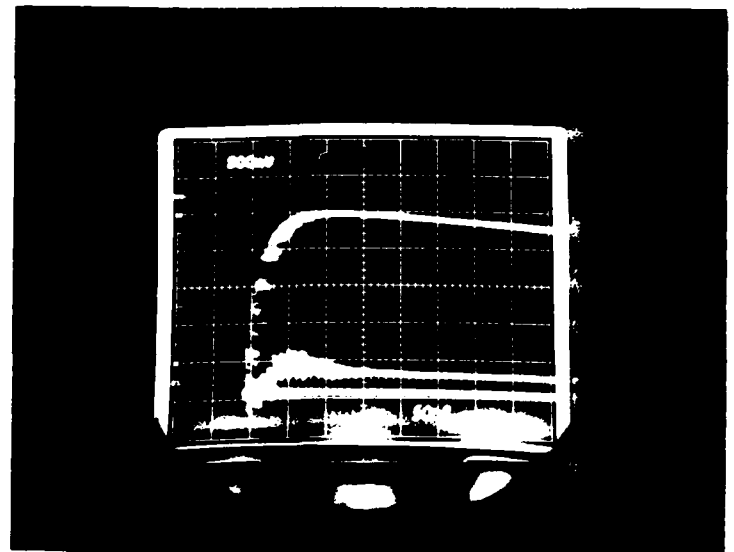
Date	6-3-85
Test Point	53R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



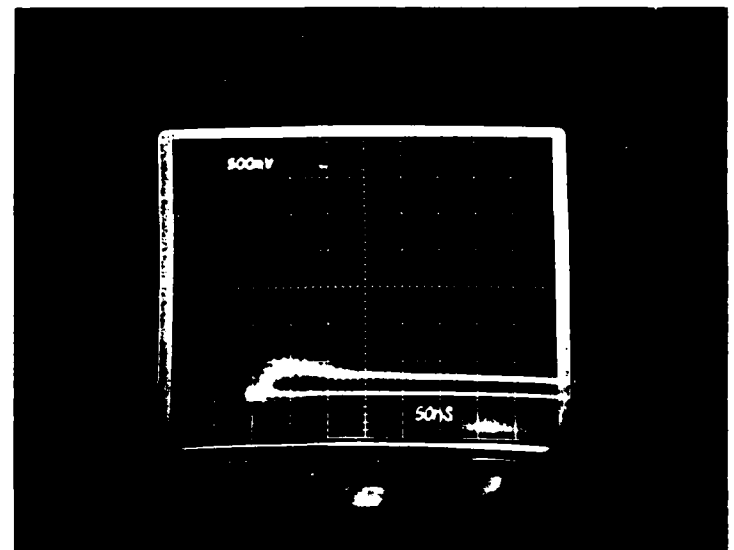
564

NO REF

Date	6-3-85
Test Point	53-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	561

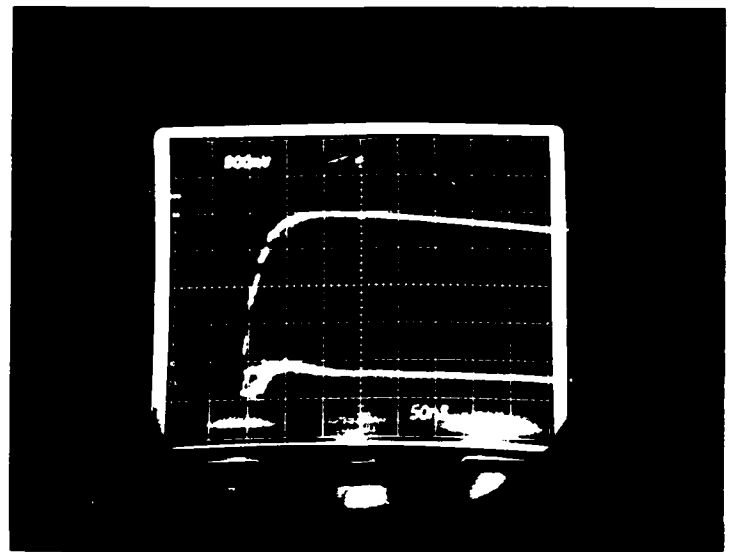


Date	6-3-85
Test Point	53R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



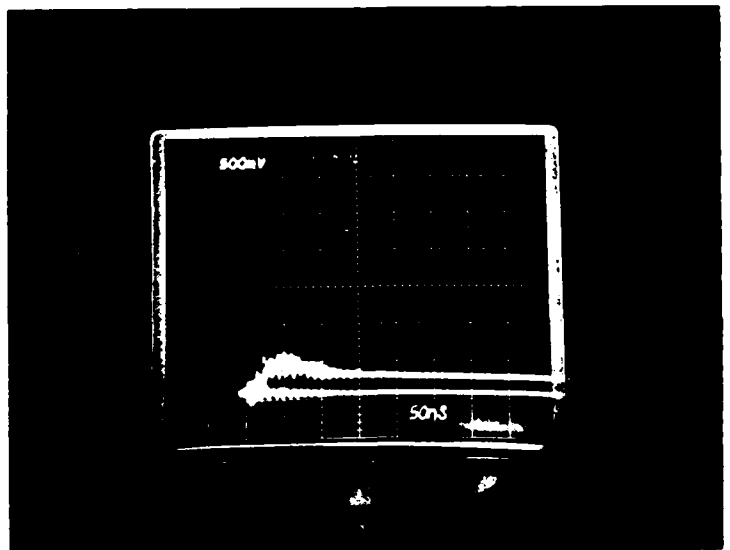
NO REF

Date	6-3-85
Test Point	53-CL-Y10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	559



559

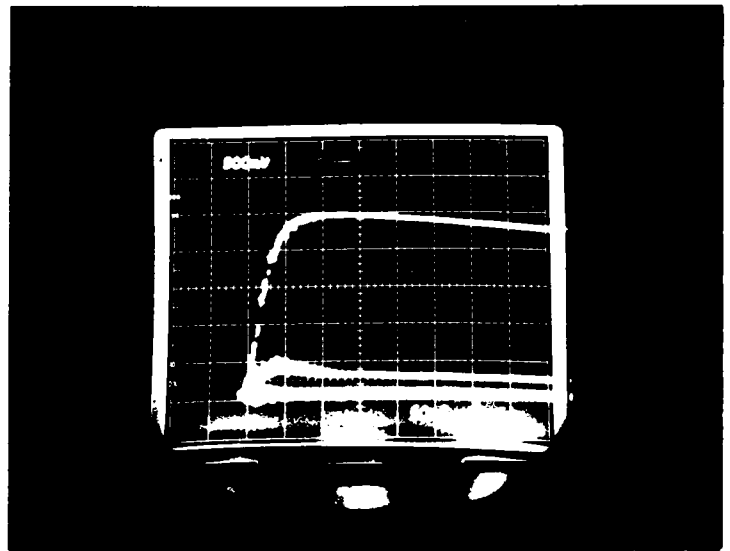
Date	6-3-85
Test Point	53R-CL-Y10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	560



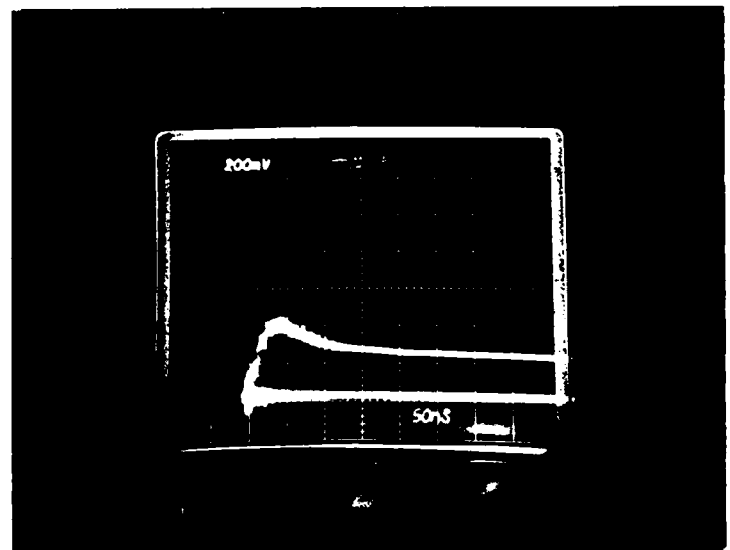
560

NO REF

Date	6-3-85
Test Point	53-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	557



Date	6-3-85
Test Point	53R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (380) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	557

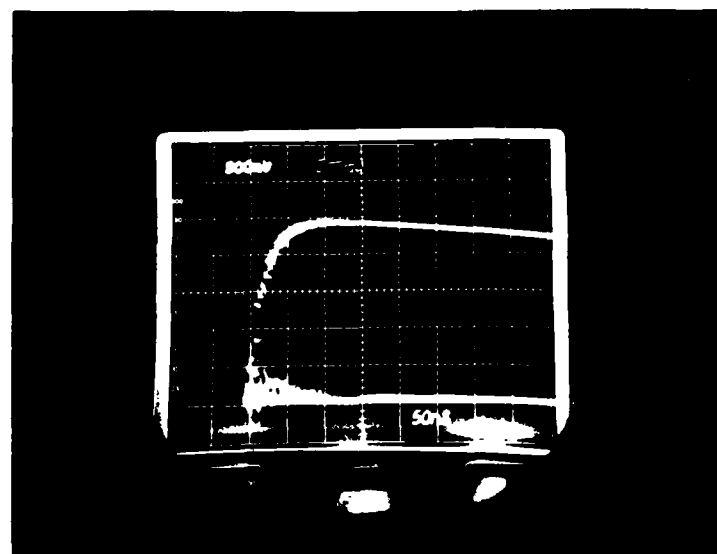


vertical .2V (380)

VERTICAL / 380V
per DIVISION

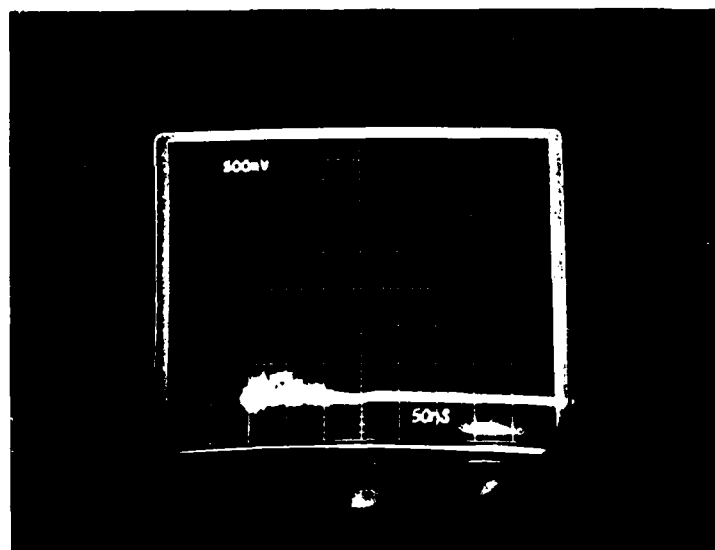
NO REF

Date	6-3-85
Test Point	56-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	576



576

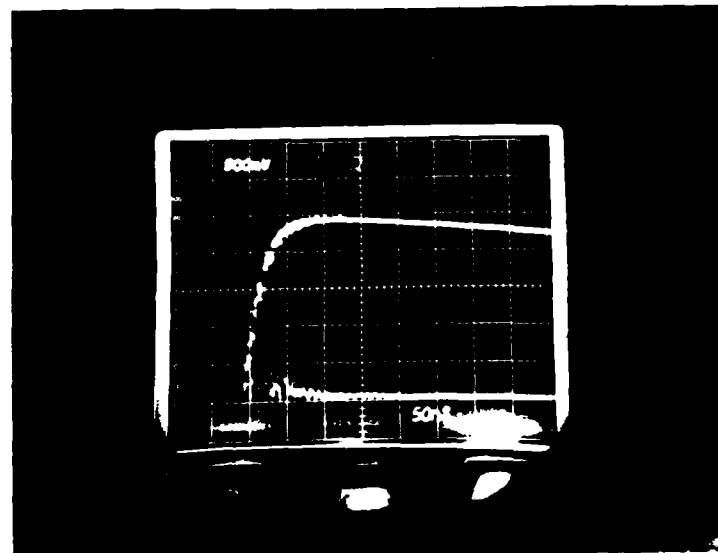
Date	6-3-85
Test Point	56R-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	577



577

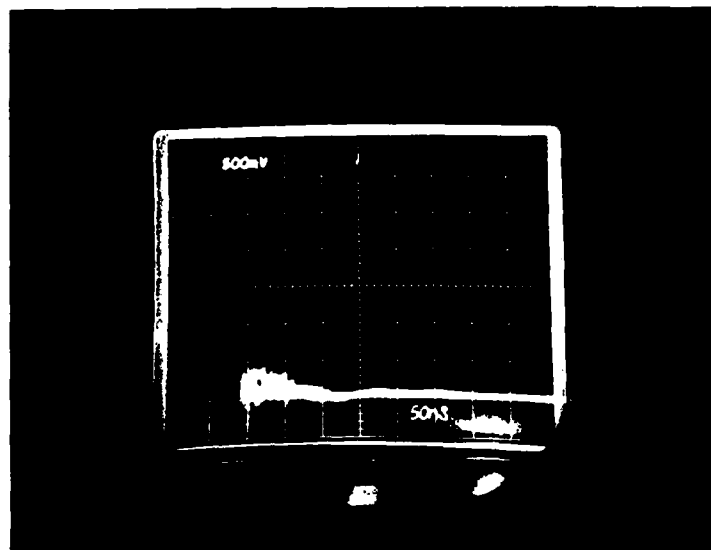
NO REF

Date	6-3-85
Test Point	56-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



574

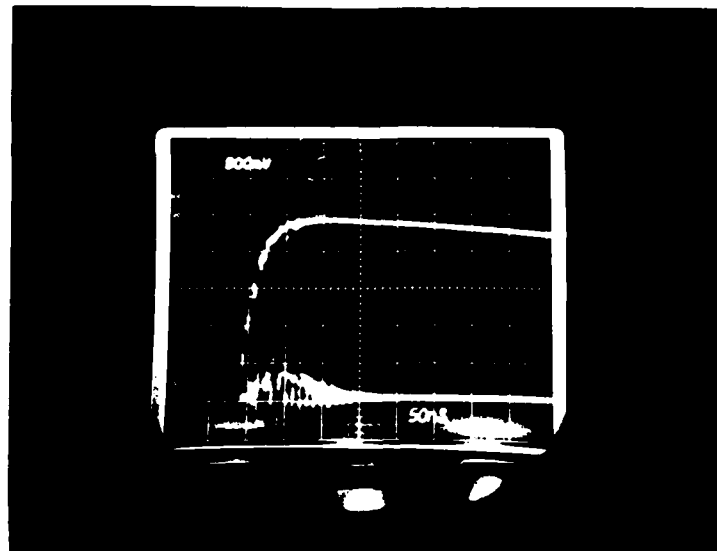
Date	6-3-85
Test Point	56R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



575

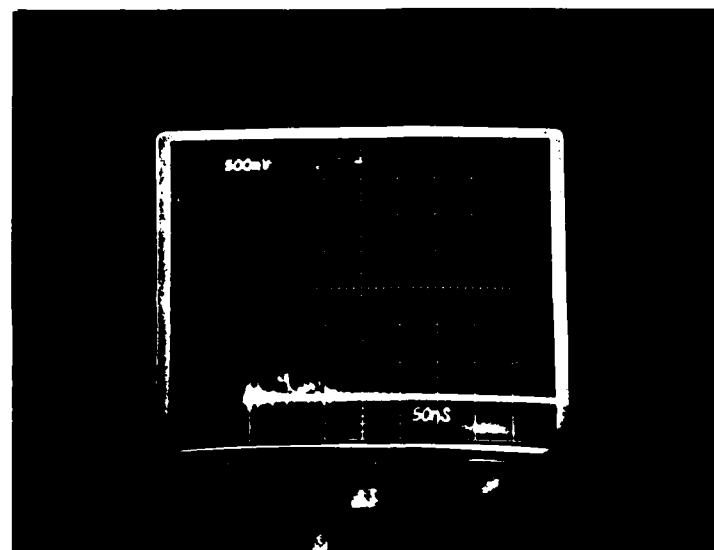
NO REF

Date	6-3-85
Test Point	56-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	



572

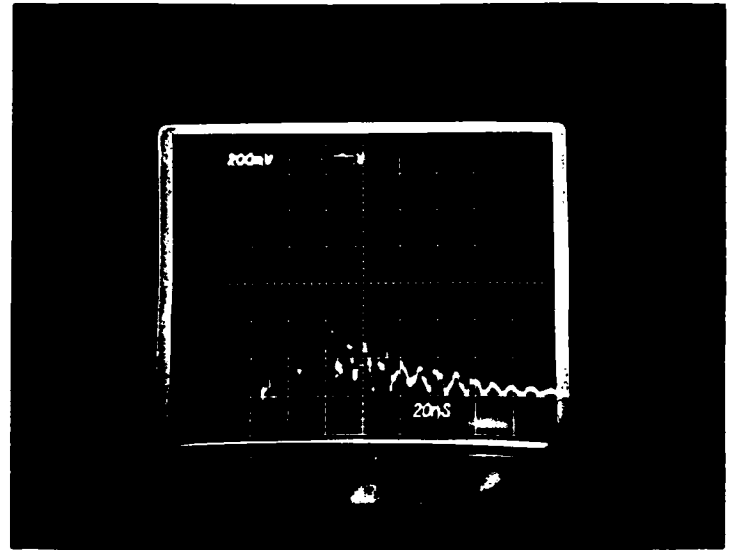
Date	6-3-85
Test Point	56R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



573

NO REF

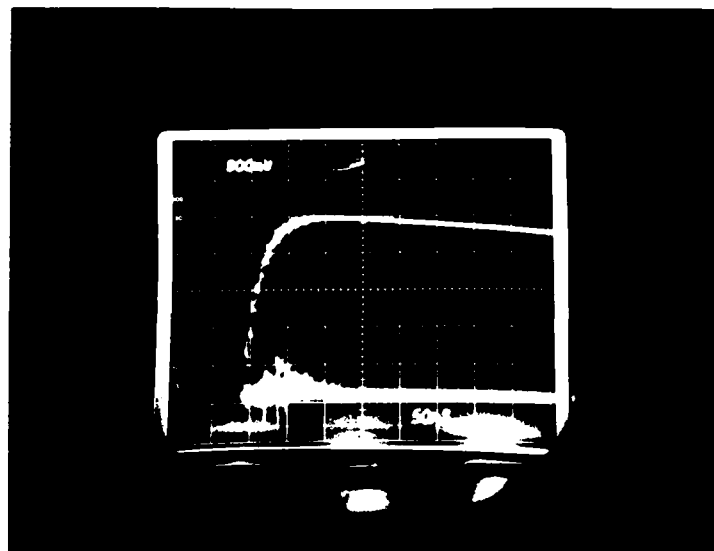
Date	6-3-85
Test Point	56R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.2V (380) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	571



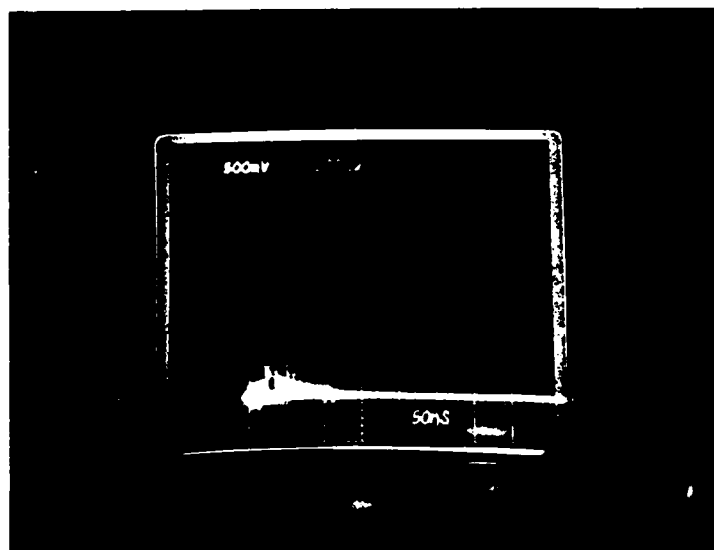
571

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-3-85
Test Point	56-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 ✓
Data Link	
Comments:	551

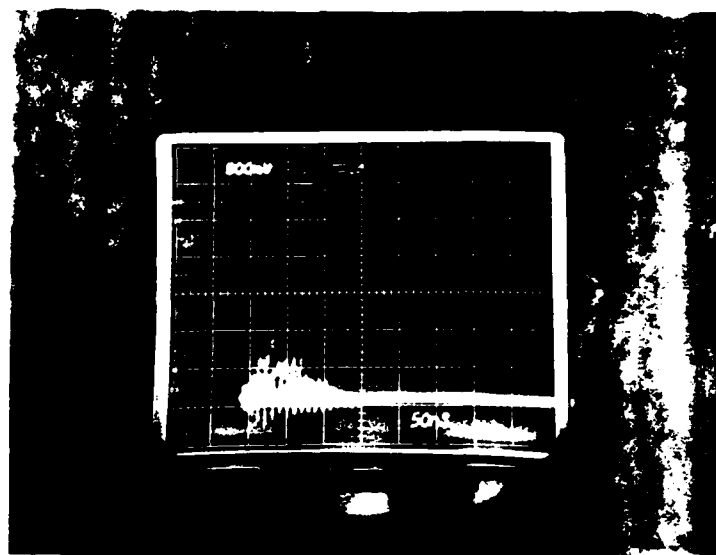


Date	6-3-85
Test Point	56R-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 ✓
Data Link	
Comments:	570



N: REF-

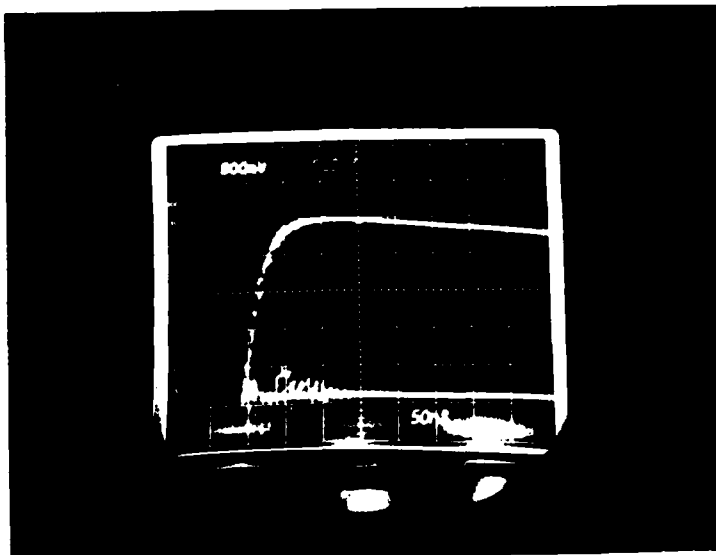
Date	6-3-85
Test Point	56-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 ✓
Data Link	
Comments:	507



507

NO REF

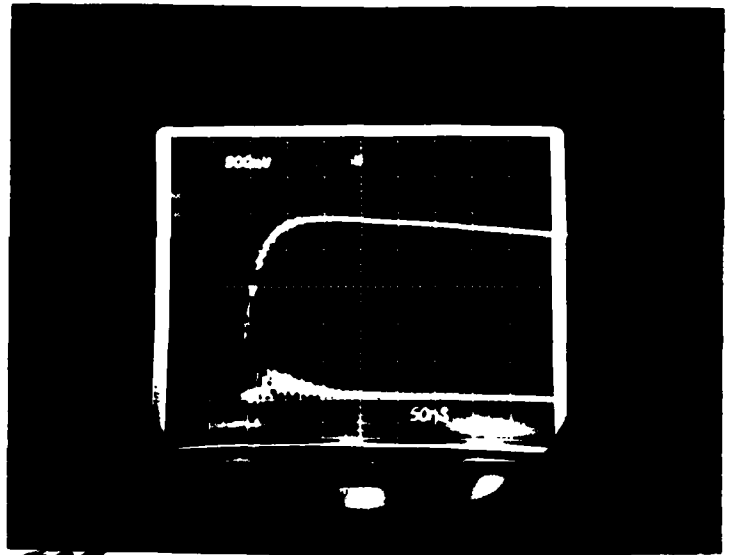
Date	6-3-85
Test Point	56R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	508



508

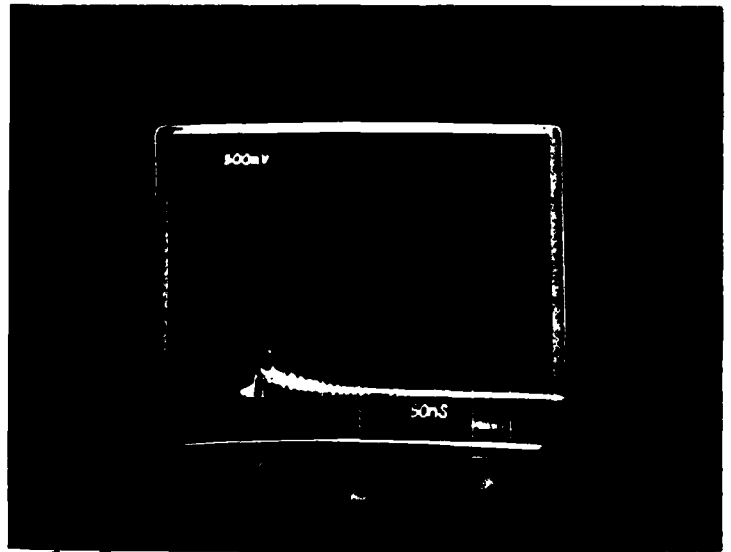
WITH REF.

Date 6-3-85
 Test Point 59-CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level + 4500V
 Data Link
 Comments:



578

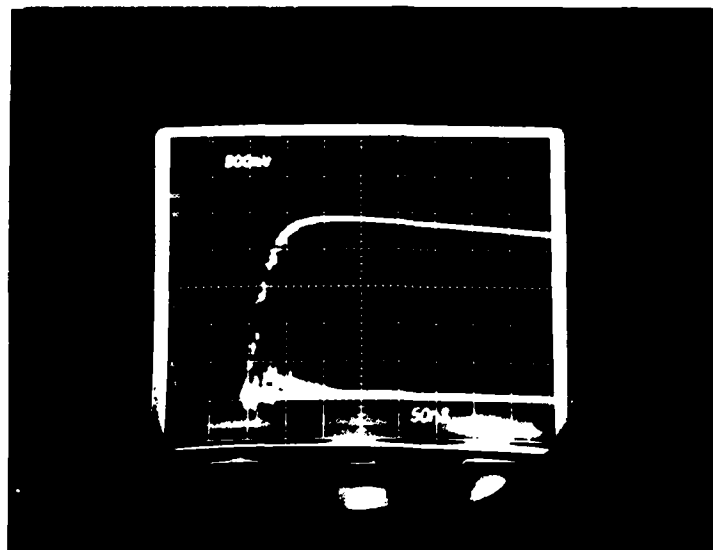
Date 6-3-85
 Test Point 59R CL-1/10-A
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V (950) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level - 4500V
 Data Link
 Comments:



579

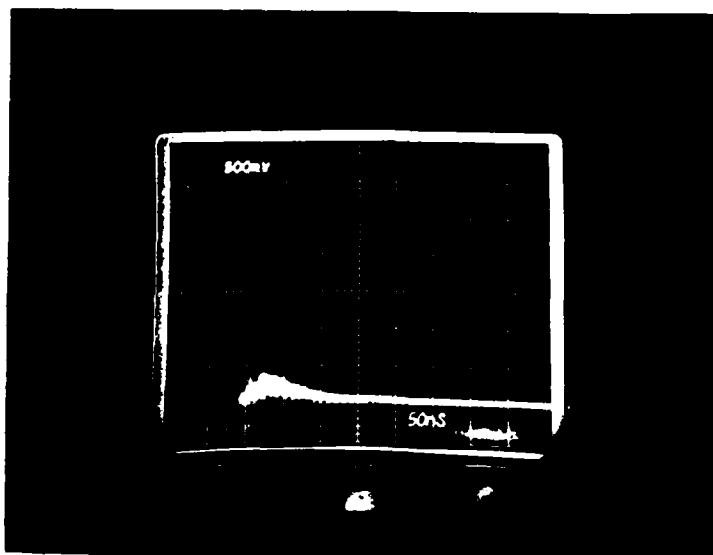
NO REF

Date	6-3-85
Test Point	59-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



580

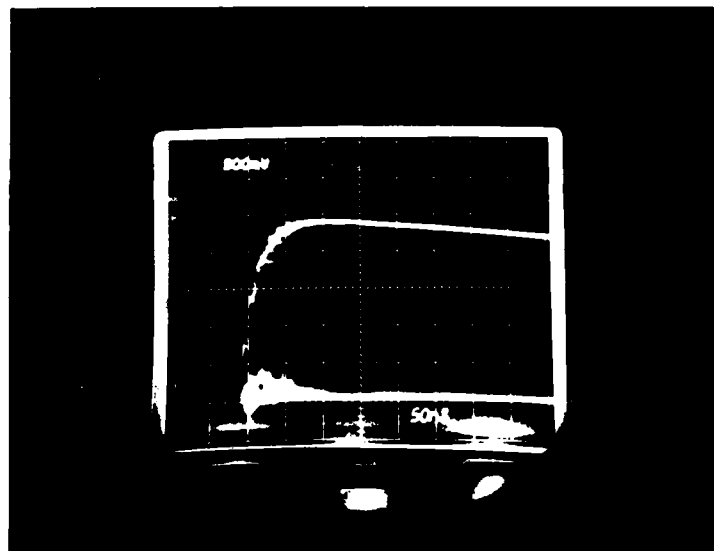
Date	6-3-85
Test Point	59R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	.5V (950) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



581

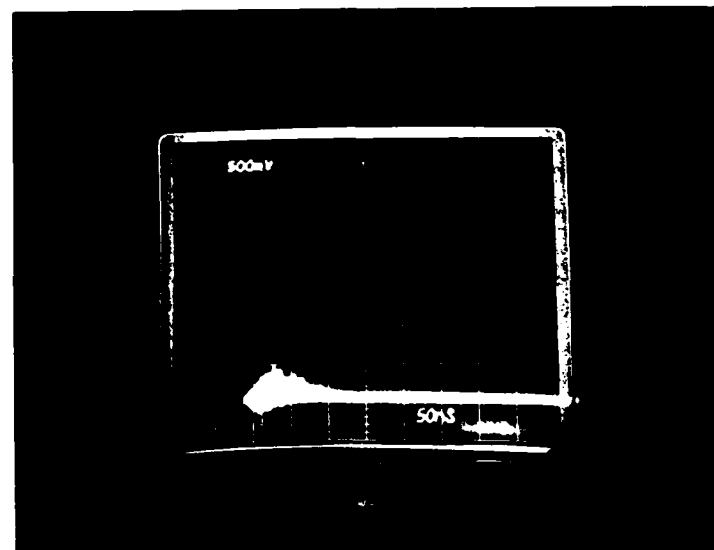
NO REF

Date	6-3-85
Test Point	59-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	500



582

Date	6-3-85
Test Point	59R-CL-410-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	500



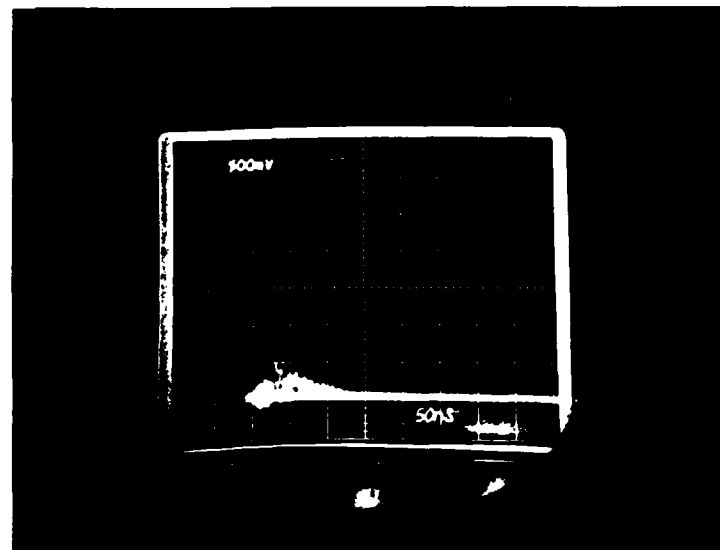
583

NO REF

Date	6-3-85
Test Point	59-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	589

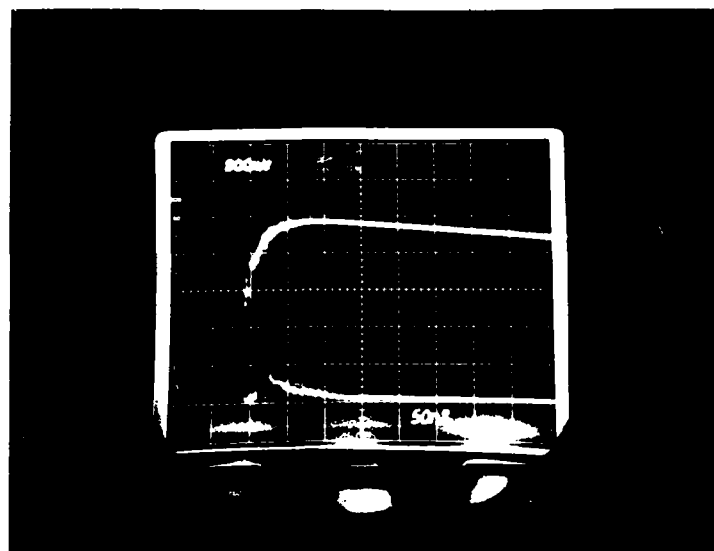


Date	6-3-85
Test Point	59R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



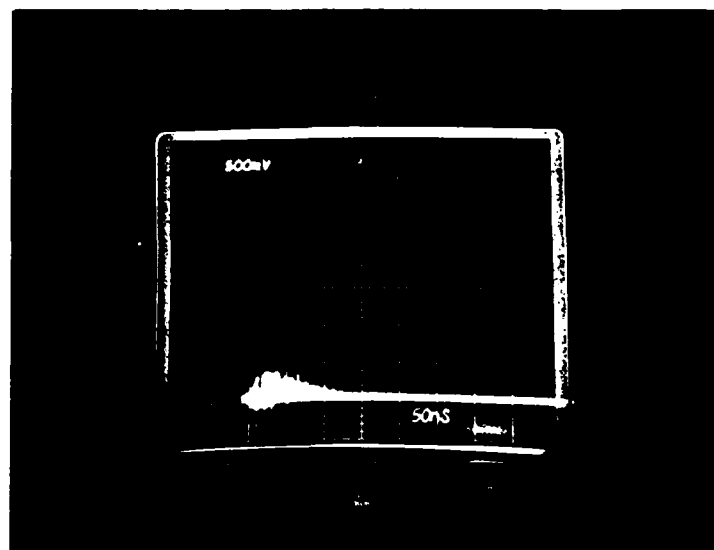
NO REF.

Date	6-3-85
Test Point	59-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



586

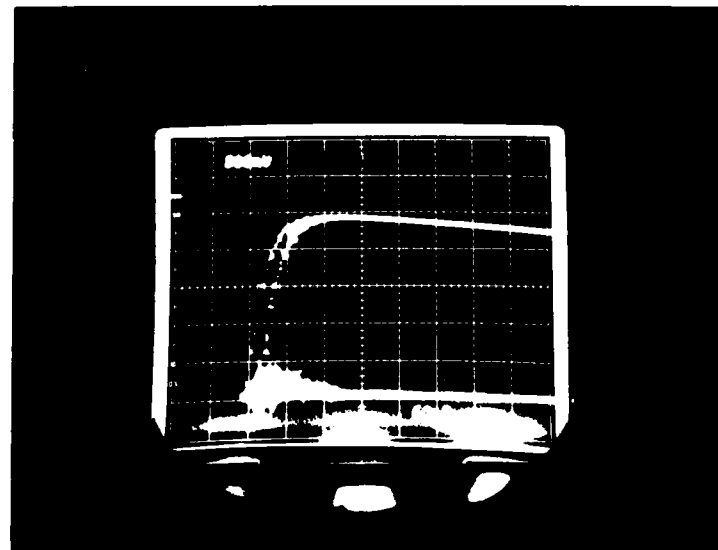
Date	6-3-85
Test Point	59R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



587

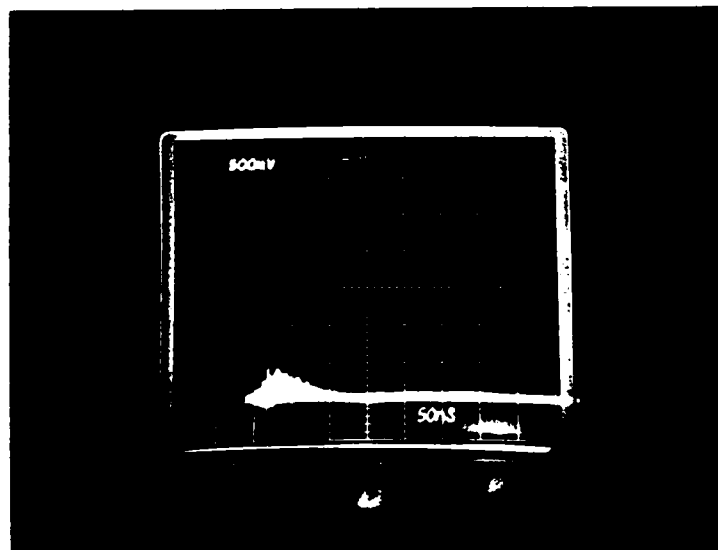
NO REF

Date	6-3-85
Test Point	62-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950 mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



588

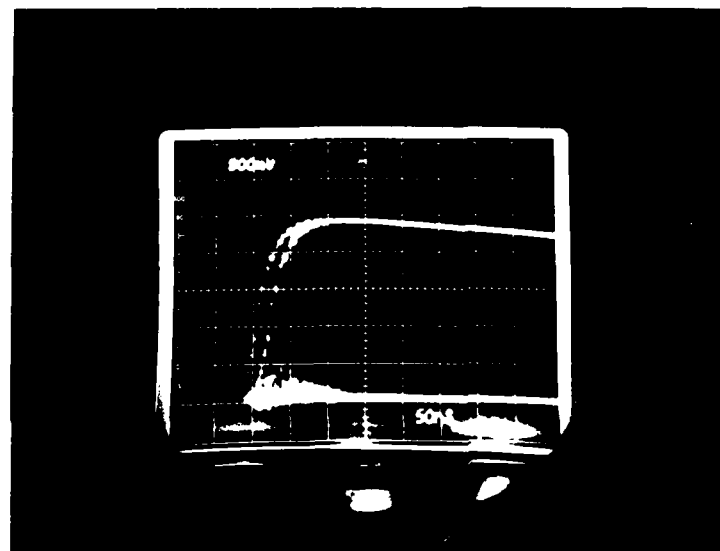
Date	6-3-85
Test Point	62R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950 mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



589

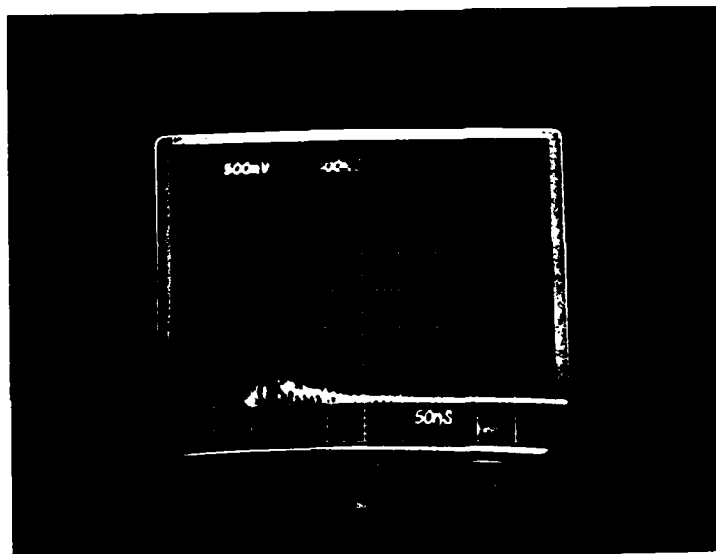
NO REF

Date	6-3-85
Test Point	62-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	5-



590

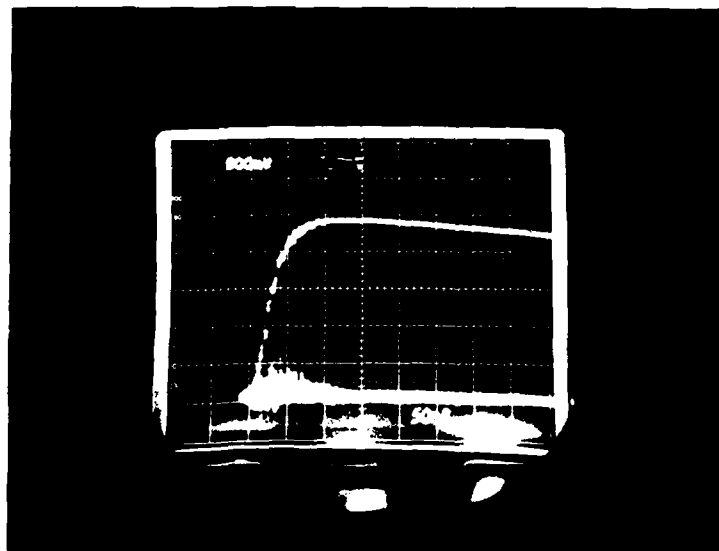
Date	6-3-85
Test Point	62R-CL-410-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



591

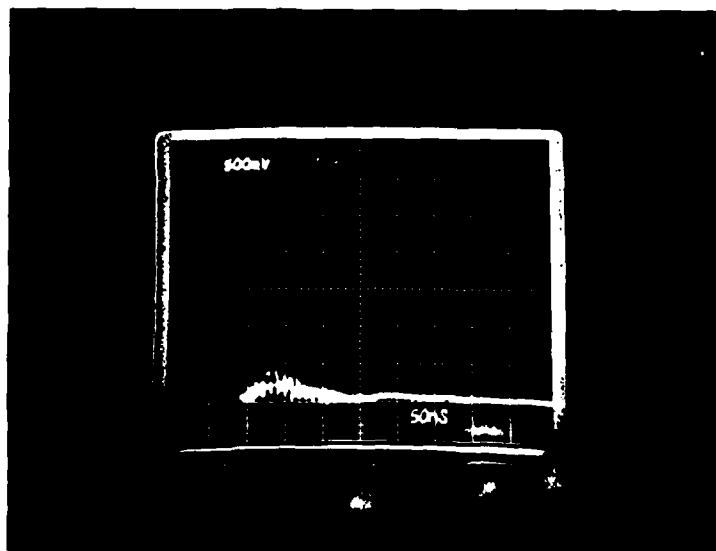
NO REF

Date	6-3-85
Test Point	62-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



592

Date	6-3-85
Test Point	62-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



593

NO REF

AD-A164 434L

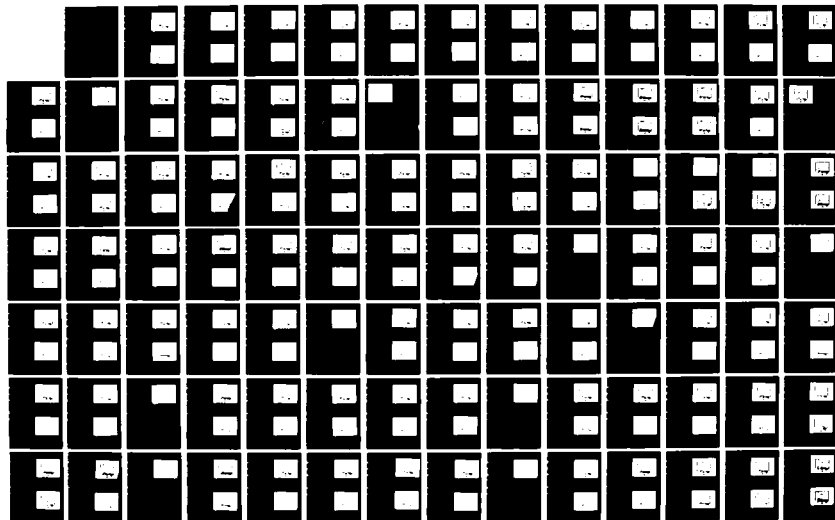
ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF
PROTECTION DEVICES FOR (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85

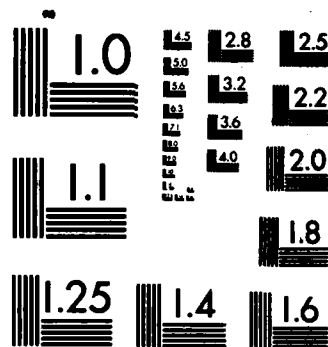
2/3

UNCLASSIFIED

NCS-TIB-85-10-VOL-3-SEC-3 DCA100-85-C-0010 F/G 20/14

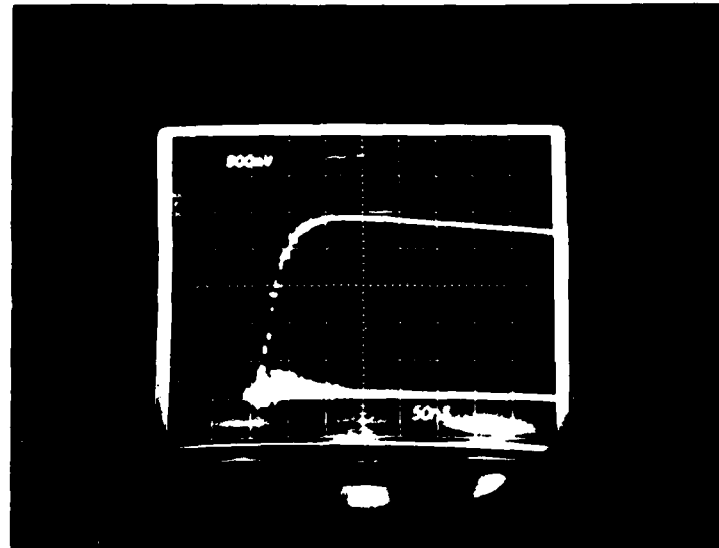
USGO





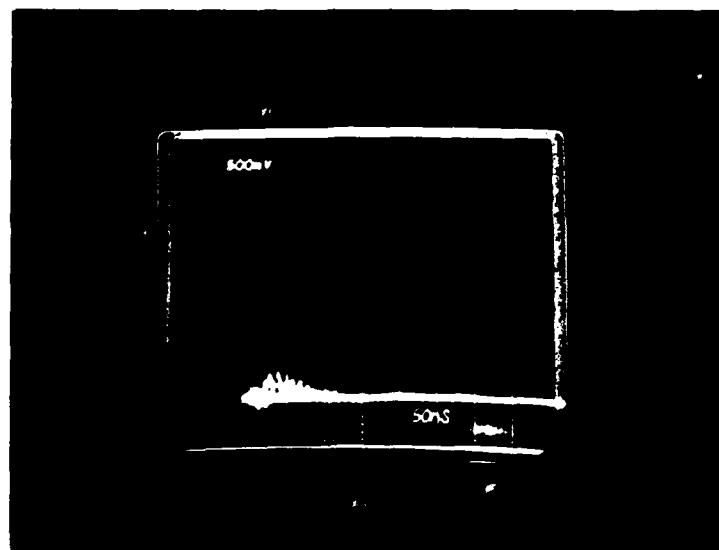
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date	6-3-85
Test Point	62-CL-400-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	594



594

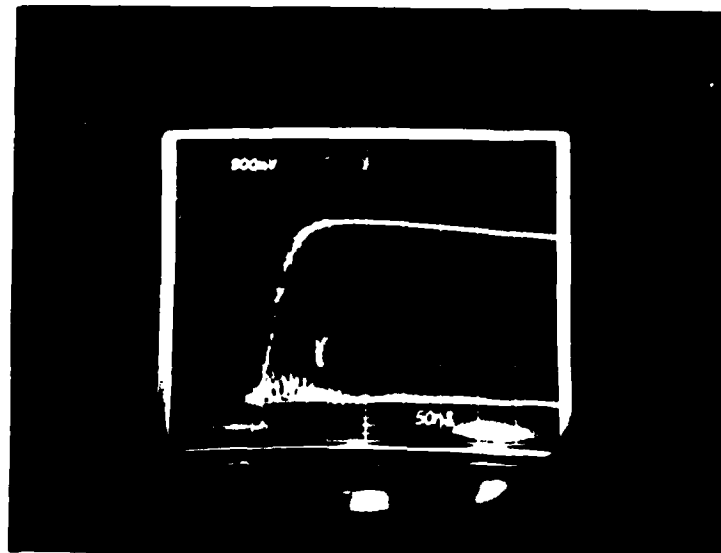
Date	6-3-85
Test Point	62R-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	595



595

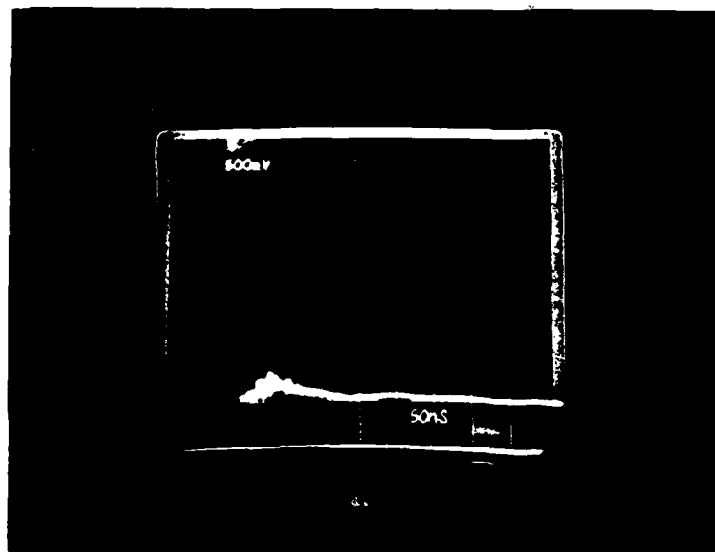
NO REF

Date	6-3-85
Test Point	62-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	516



516

Date	6-3-85
Test Point	62R-CL-410-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	517



517

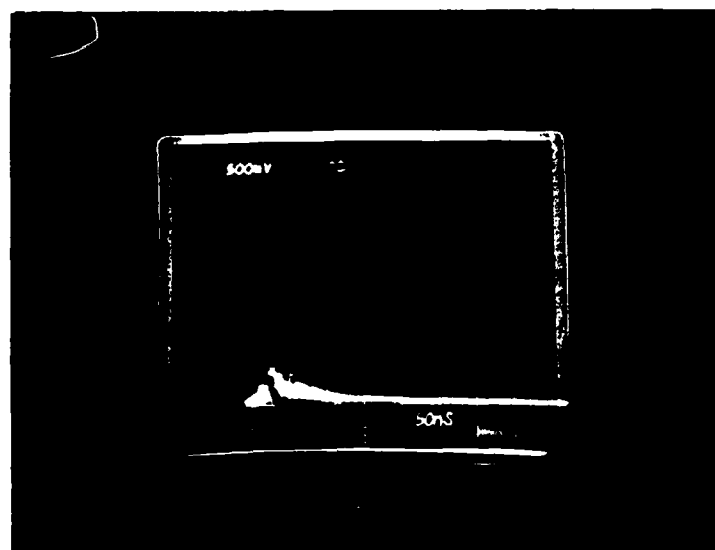
NO REF

Date	6-3-85
Test Point	65-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



598

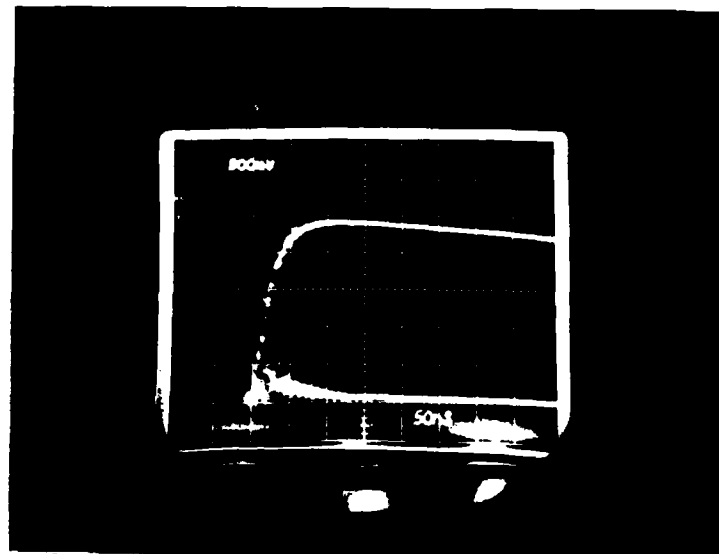
Date	6-3-85
Test Point	65R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	



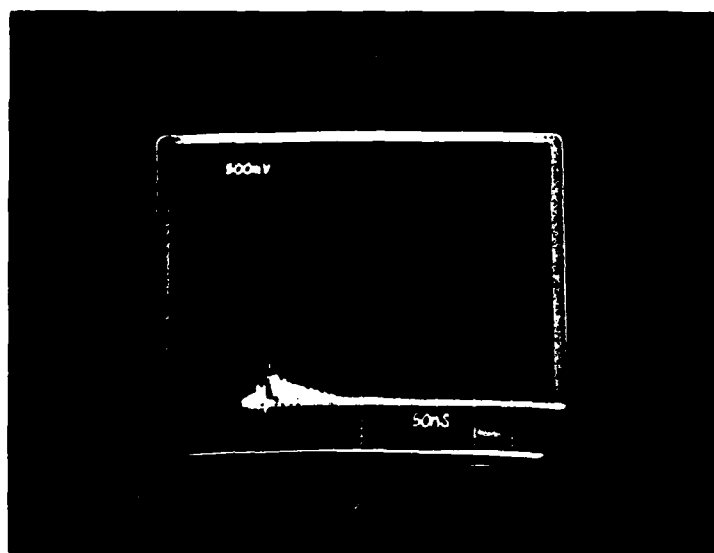
599

NO REF

Date	6-3-85
Test Point	65-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	



Date	6-3-85
Test Point	65R-CL-1/10-R
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



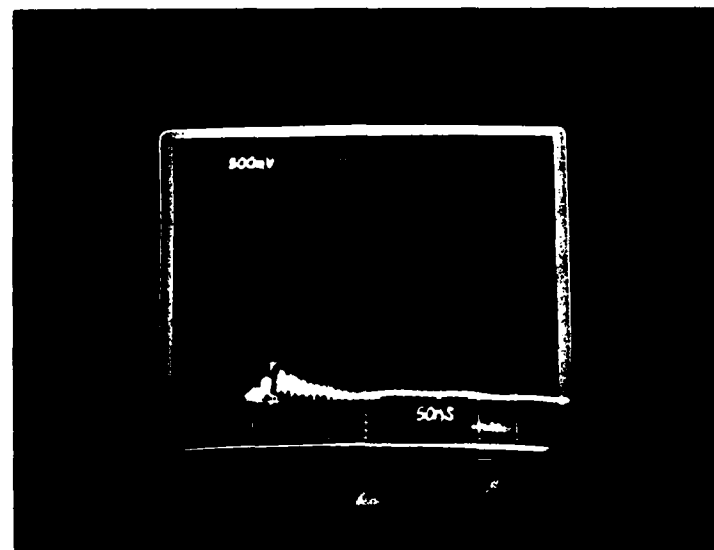
NO REF

Date	6-3-85
Test Point	65-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	6



602

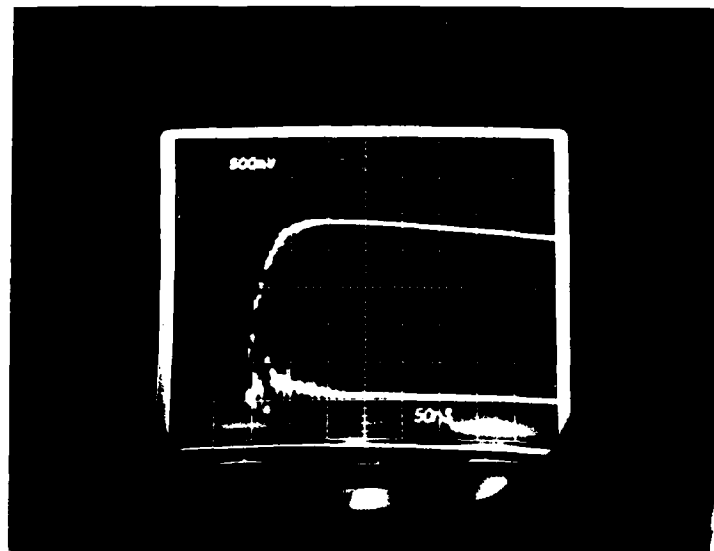
Date	6-3-85
Test Point	65R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	6.2



603

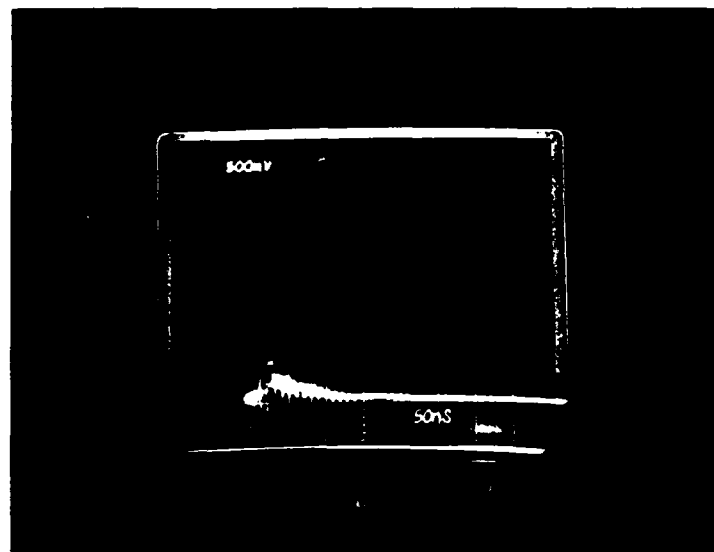
NO REF

Date	6-3-85
Test Point	65-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	604



604

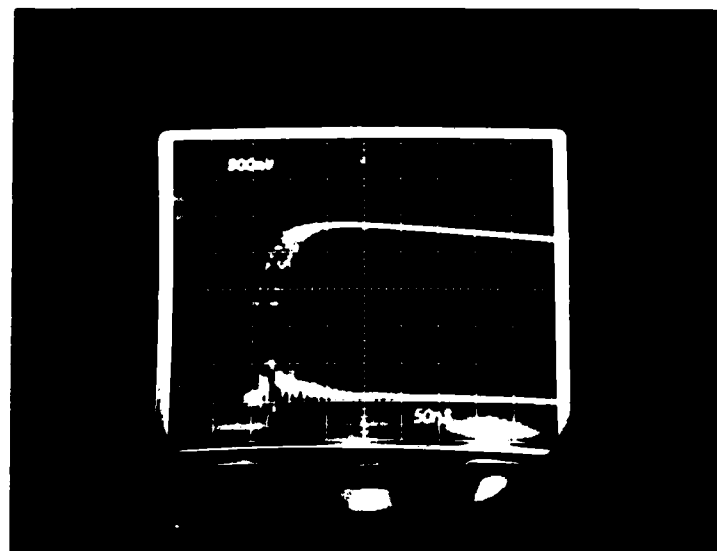
Date	6-3-85
Test Point	65R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	605



605

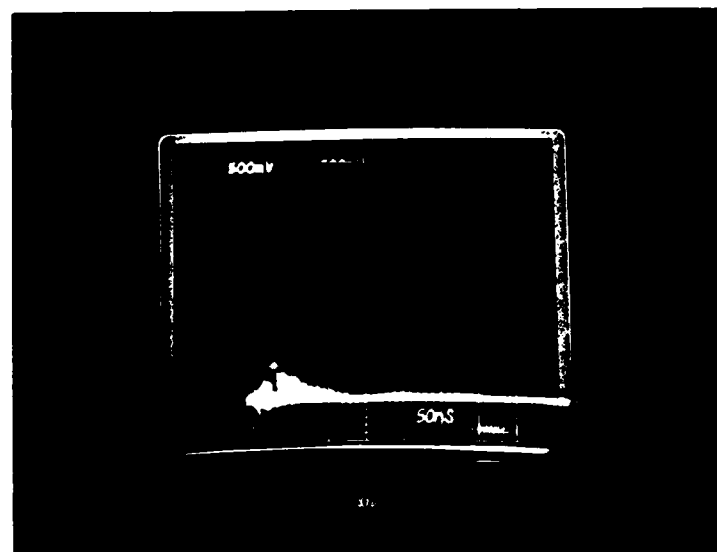
NO REF

Date	6-3-85
Test Point	65-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



606

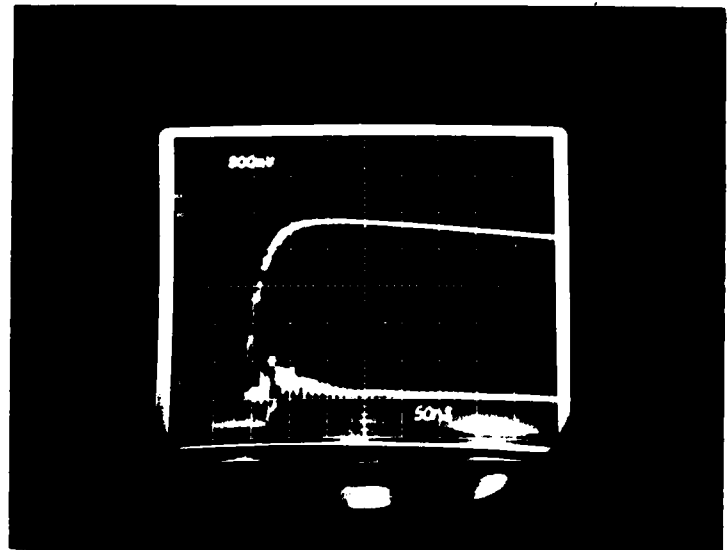
Date	6-3-85
Test Point	65R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



607

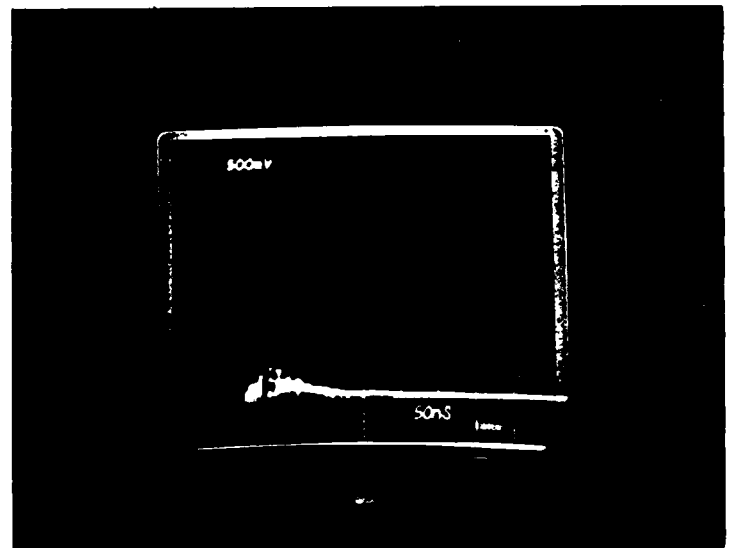
NO REF

Date	6-3-85
Test Point	67-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	605



408

Date	6-3-85
Test Point	67R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	607

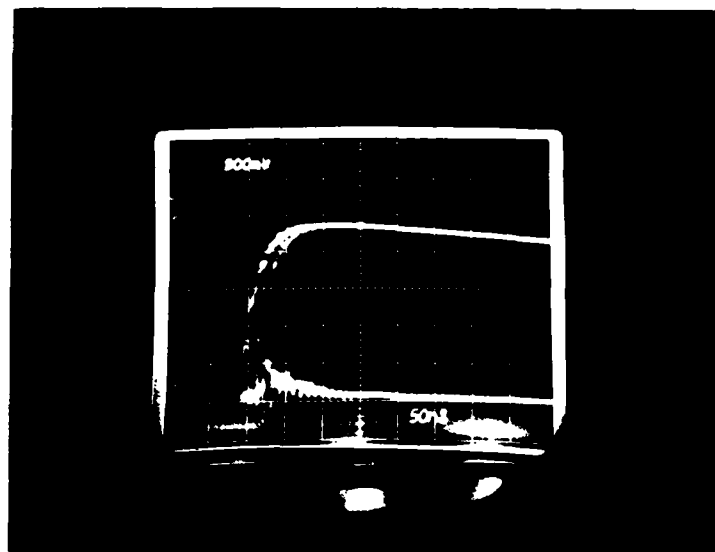


609

NO REF

Date	6-3-85
Test Point	67-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	

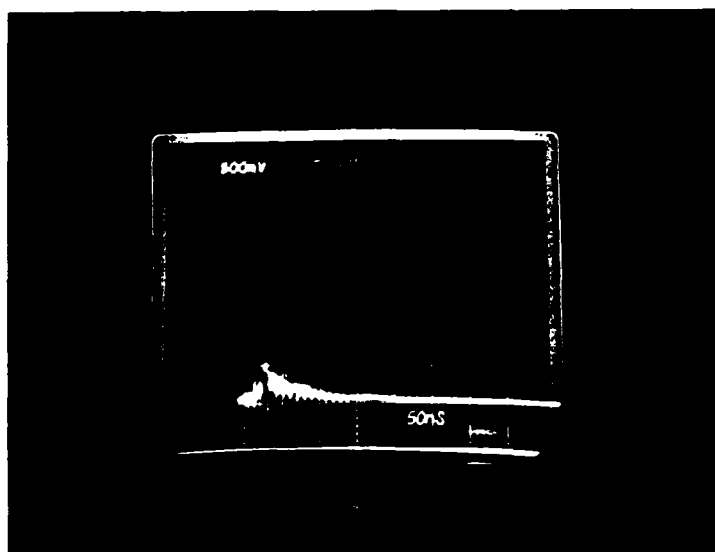
Comments: 610



610

Date	6-3-85
Test Point	67R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

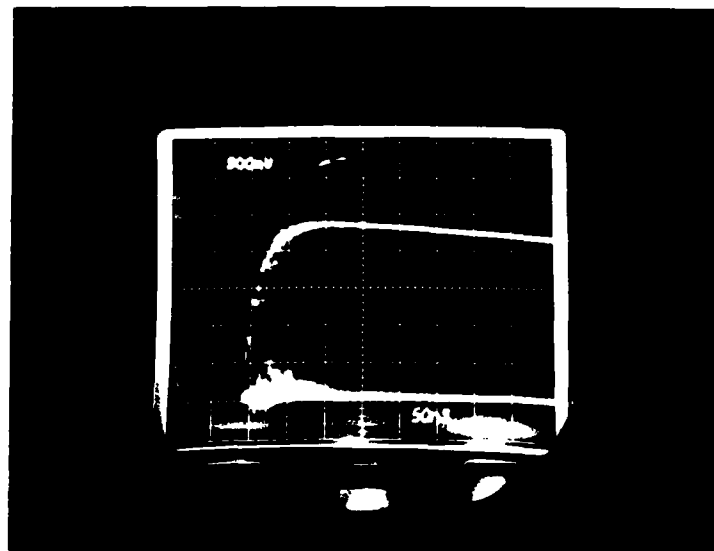
Comments: 611



611

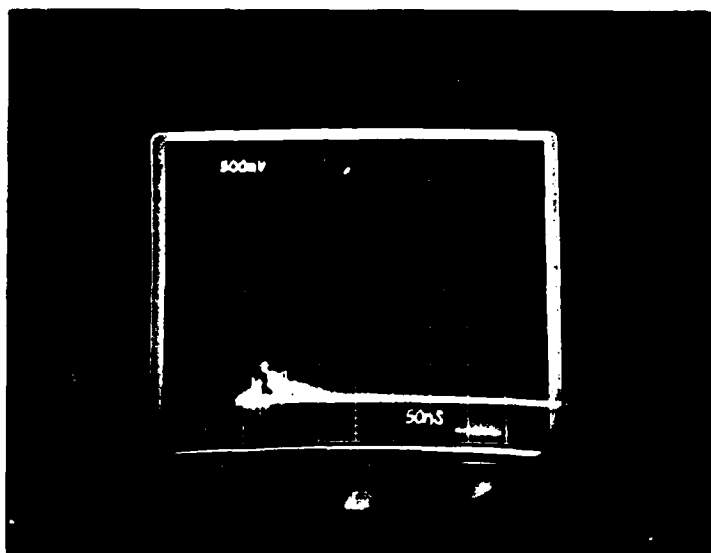
NO REF

Date	6-3-85
Test Point	67-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	612



612

Date	6-3-85
Test Point	67R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	

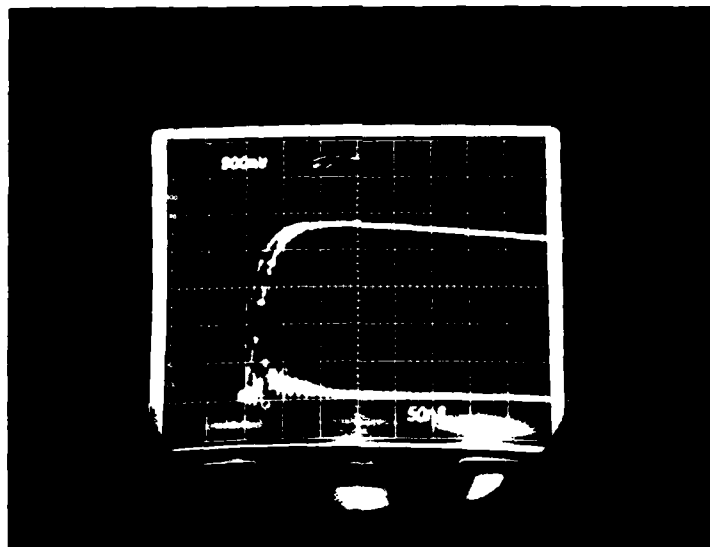


613

NO REF

Date	6-3-85
Test Point	67-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

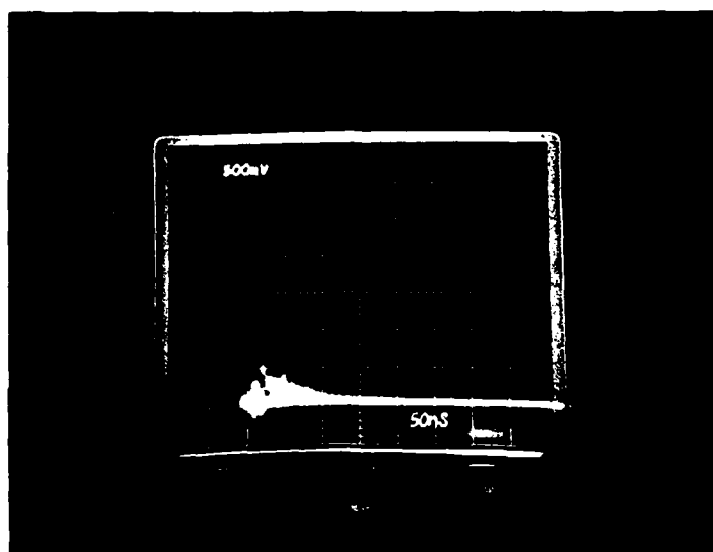
Comments: 614



614

Date	6-3-85
Test Point	67R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

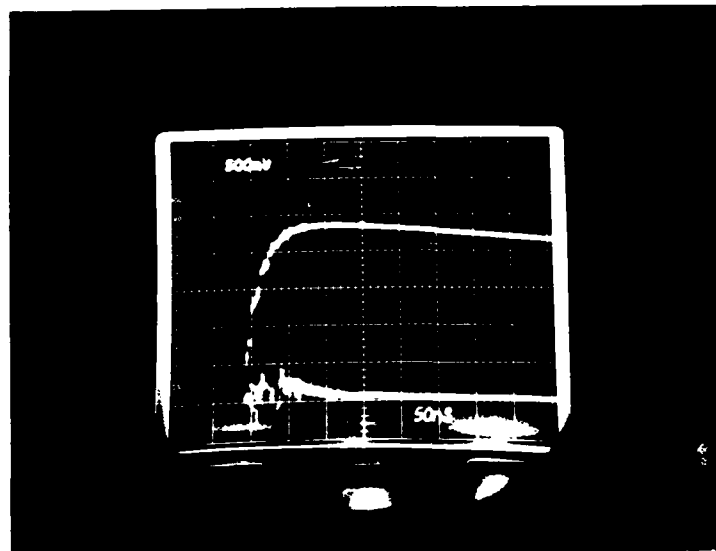
Comments: 615



615

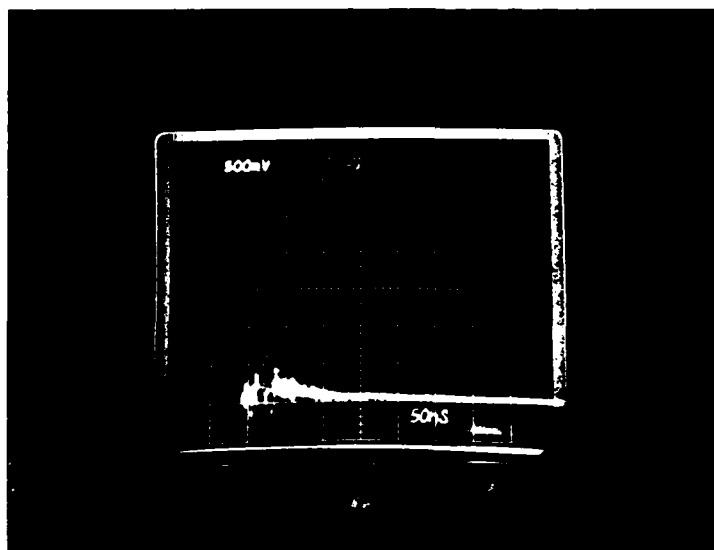
NO REF

Date	6-3-85
Test Point	67-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	6



616

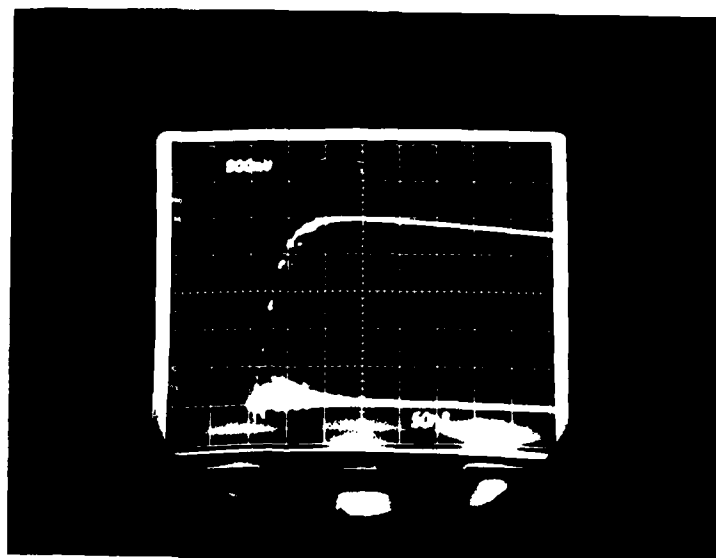
Date	6-3-85
Test Point	67R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	6-1



617

NO REF

Date	6-4-85
Test Point	68-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Date Link	
Comments:	728

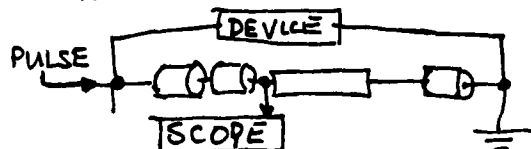


728

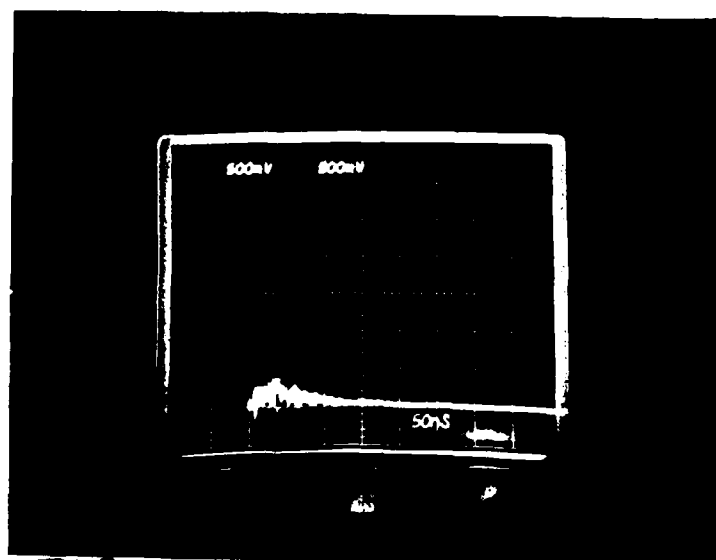
LOAD RESISTOR

LOADED WITH 3 FERRITE

BEADS - (TYPE L-C (73 MATERIAL)
FAIR-RITE PRODUCTS CORP



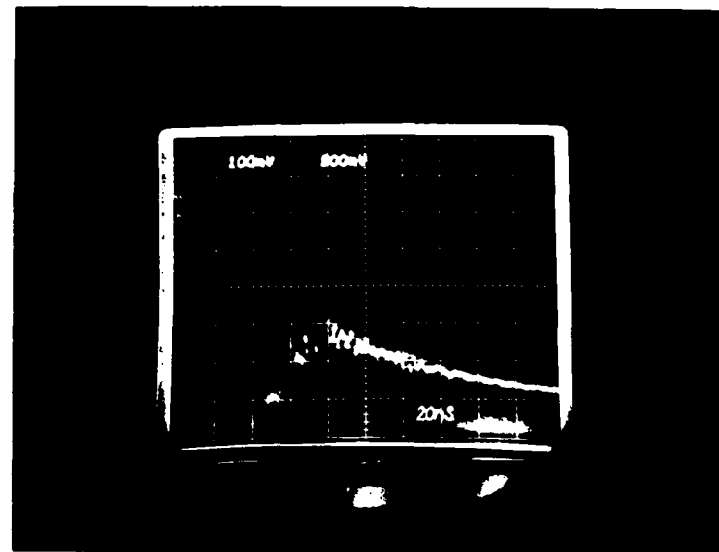
Date	6-4-85
Test Point	68R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Date Link	
Comments:	729



729

3 BEADS ON LOAD - WW

Date	6-4-85
Test Point	68-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	727

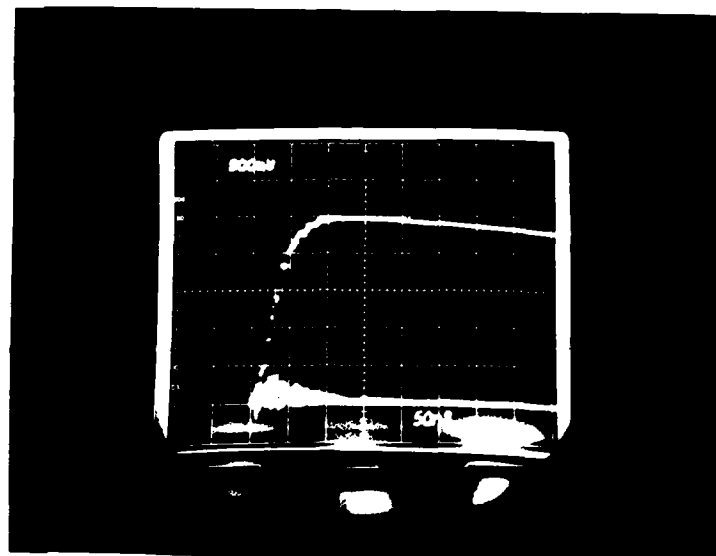


727

LOAD RESISTOR HAS 3 BEADS -

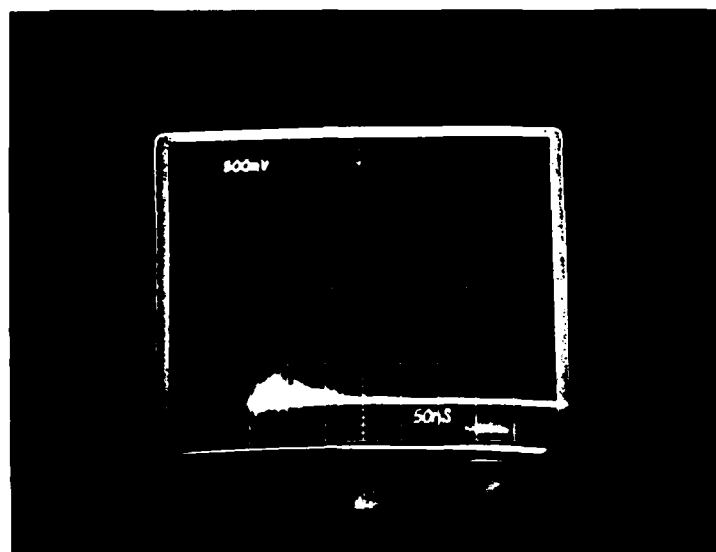
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	68-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500
Data Link	
Comments:	770



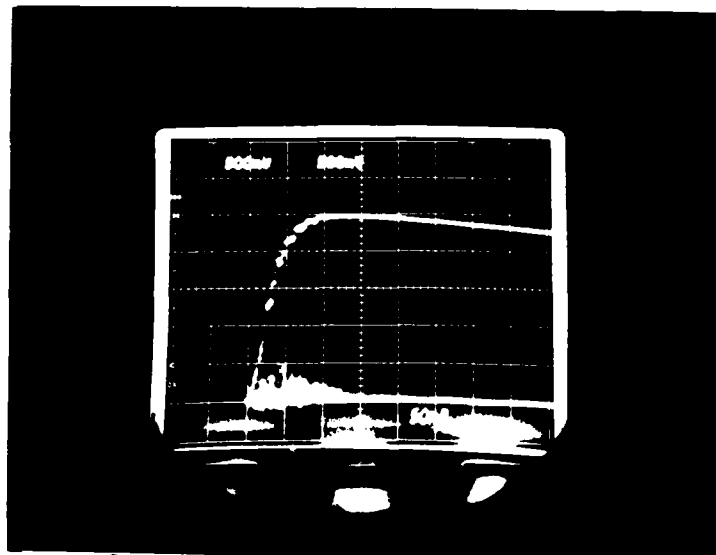
BEADS ON LOAD -mm-

Date	6-4-85
Test Point	68R-CL-Y10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 ✓
Data Link	
Comments:	



3-BEADS ON LOAD -mm-

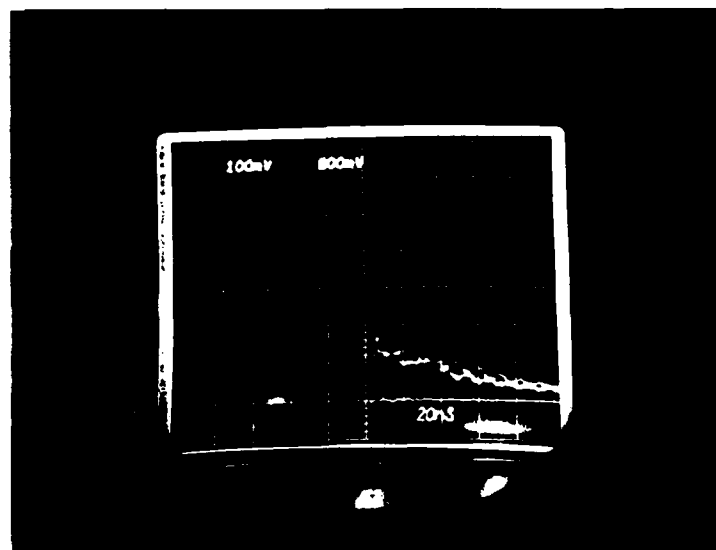
Date	6-4-85
Test Point	68-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



732

3 BEADS ON LOAD -WW-

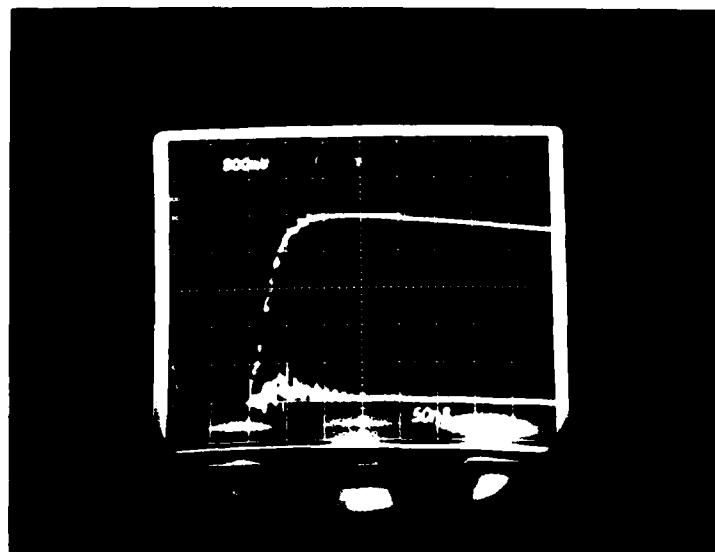
Date	6-4-85
Test Point	68R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	25 ns/div 1
Vertical	.1V (190V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



733

3 BEADS ON LOAD -WW-

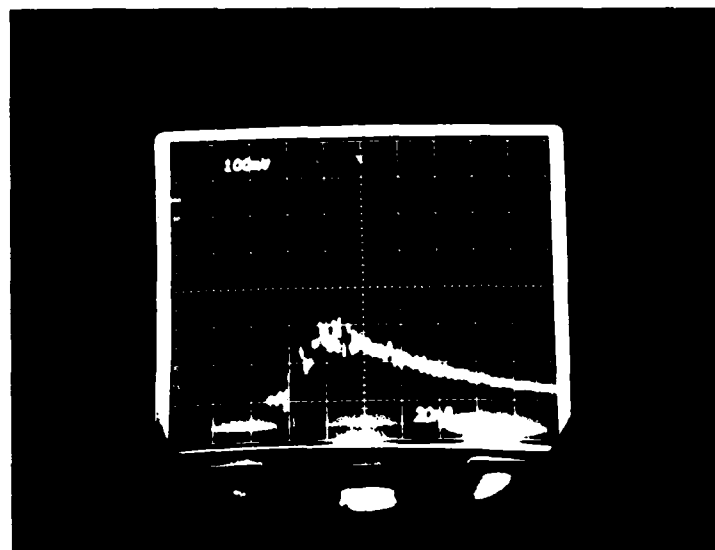
Date	6-4-85
Test Point	68-CL-40-D
Amplification	dB
Attenuation	20 dB
Horizontal	50ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	734



734

3 BEADS ON LOAD - MW

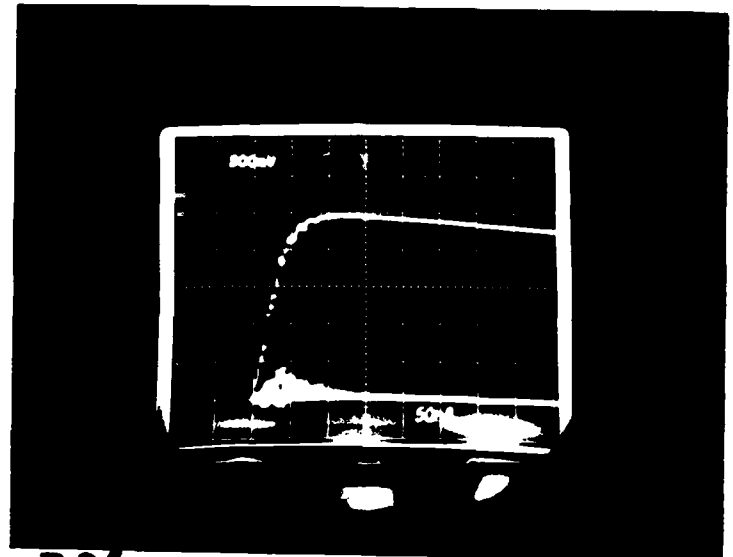
Date	6-4-85
Test Point	68R-CL 1/20-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	735



735

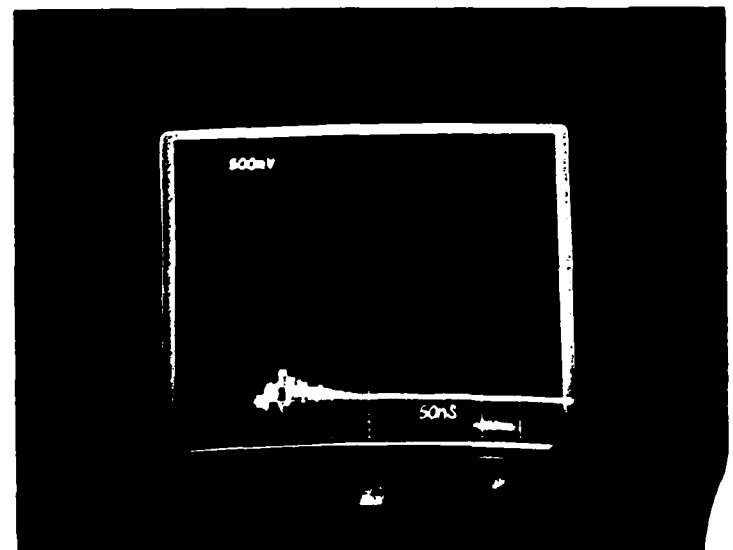
3 BEADS ON LOAD - MW

Date	6-4-85
Test Point	68-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) 5V/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	

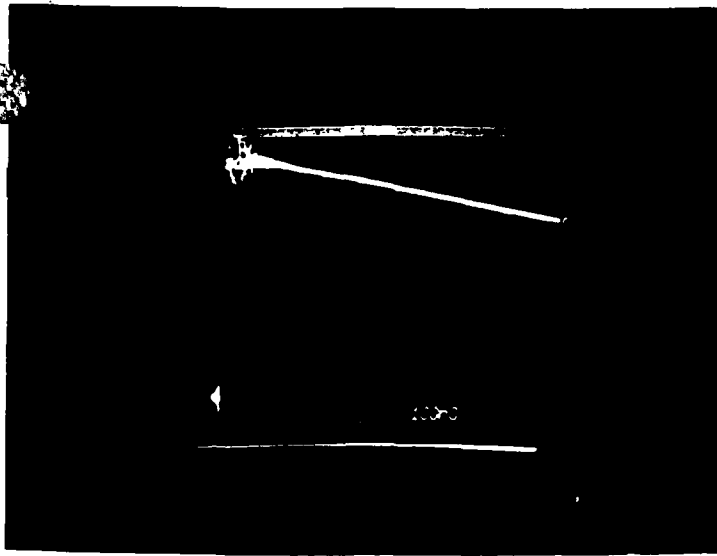


3 BEADS ON LOAD -MM-

Date	6-4-85
Test Point	68R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) 5V/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



3 BEADS ON LOAD -MM-



15

REF ON BACK

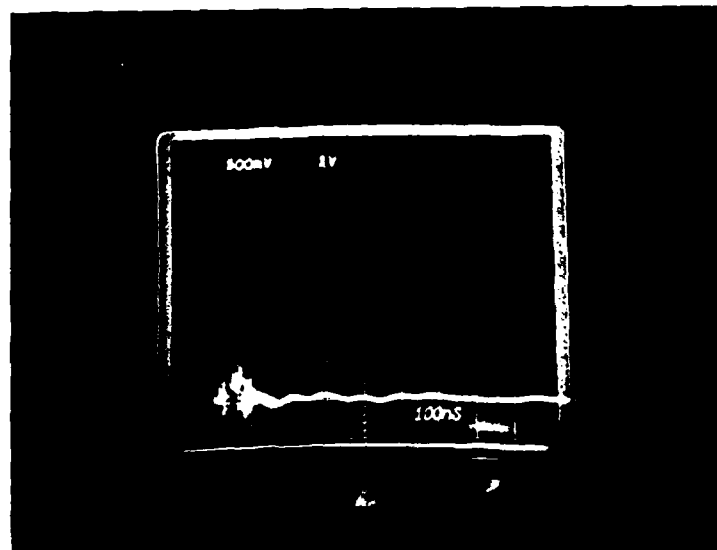
Date	5-28-85
Test Point	70-BL-1/10-K
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4.5 kV
Data Link	

*

Comments:

328

4.5 kV



* ALL FOLLOWING PULSES REFLECT SCOPE PREAMP ERROR OF INDICATING 2 TWICE THE ACTUAL VOLTAGE IT IS REALLY 600V PER DIVISION

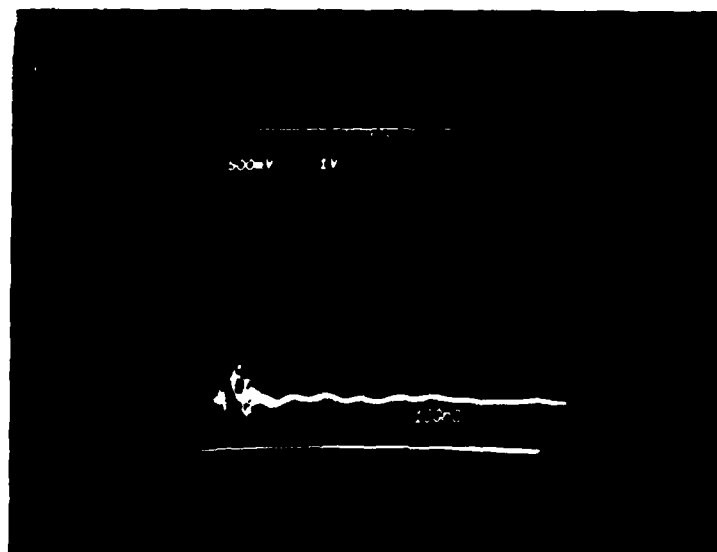
Date	5-28-85
Test Point	70R-BL-1/10-K
Amplification	0 dB
Attenuation	20 dB
Horizontal	100 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	4.5 kV
Data Link	

*

Comments:

329

* 600V/div

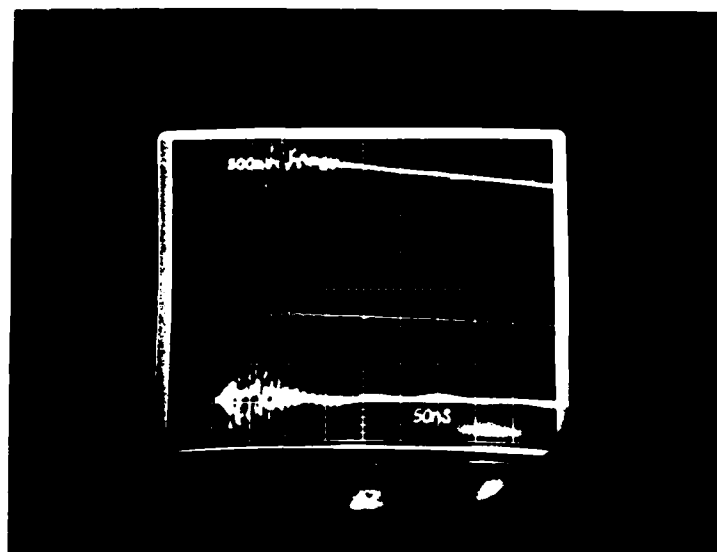


Date 5-28-85
 Test Point 70-BL-1/10-L
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(1200V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4.5KV
 Data Link
 Comments:

330

50ns/

* 600 V/div

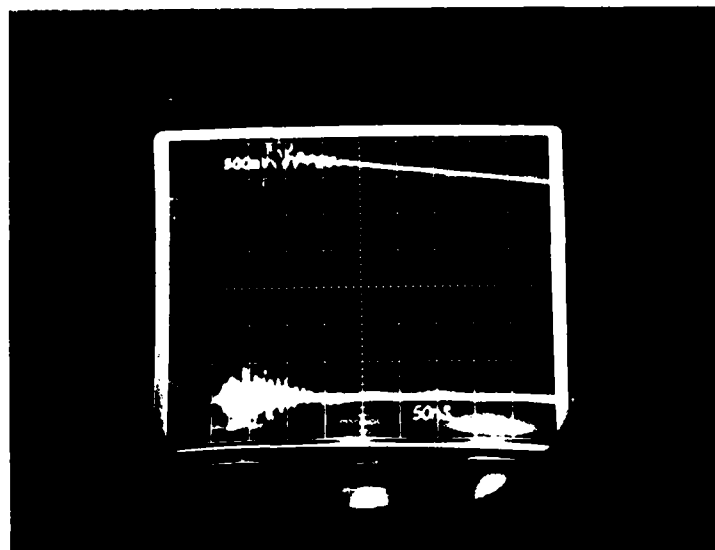


330

Date 5-28-85
 Test Point 70R-BL-1/10-L
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(1200V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4.5KV
 Data Link
 Comments:

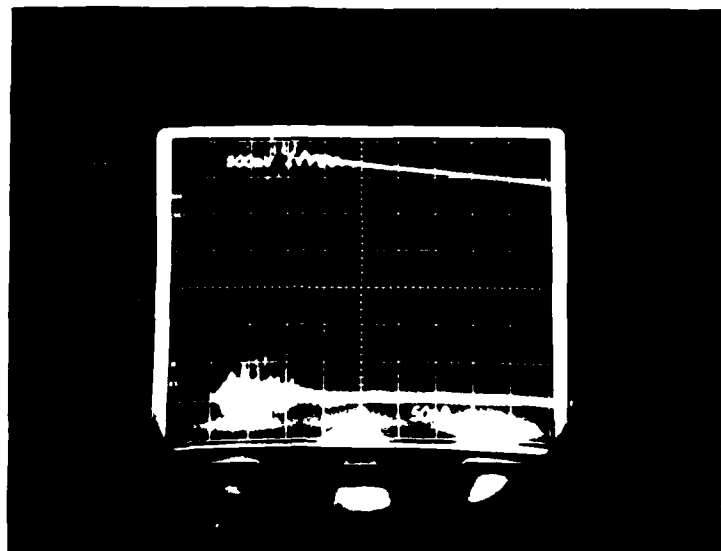
331

* 600 V/div



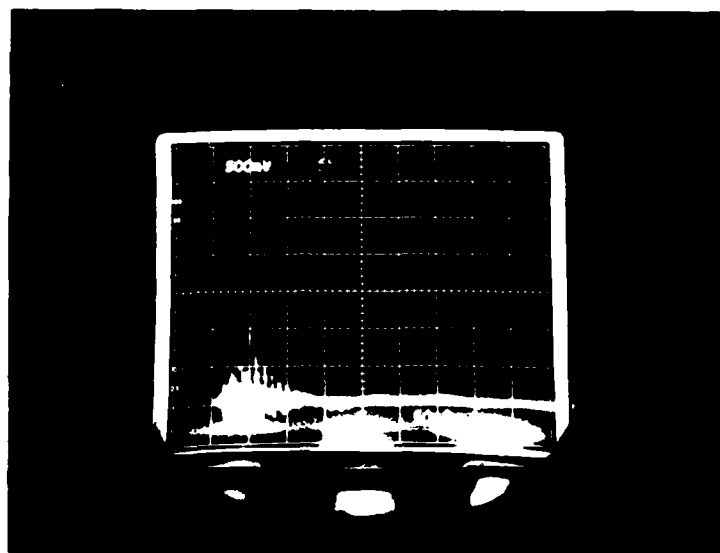
331

Date 5-28-85
 Test Point 70-BL-1/10-M
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(1200V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4.5kV
 Data Link
 Comments: 332



* 600 V/div

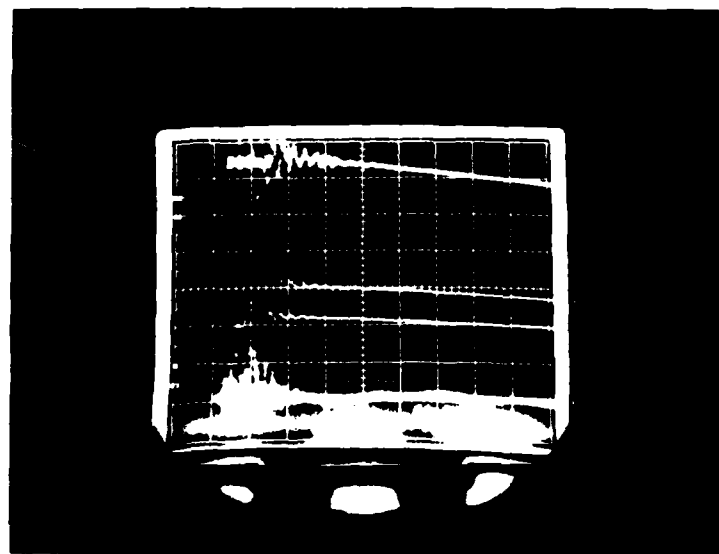
Date 5-28-85
 Test Point 70R-BL-1/10-M
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .5V(1200V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level 4.5kV
 Data Link
 Comments: 333



NO REF

* 600 V/div

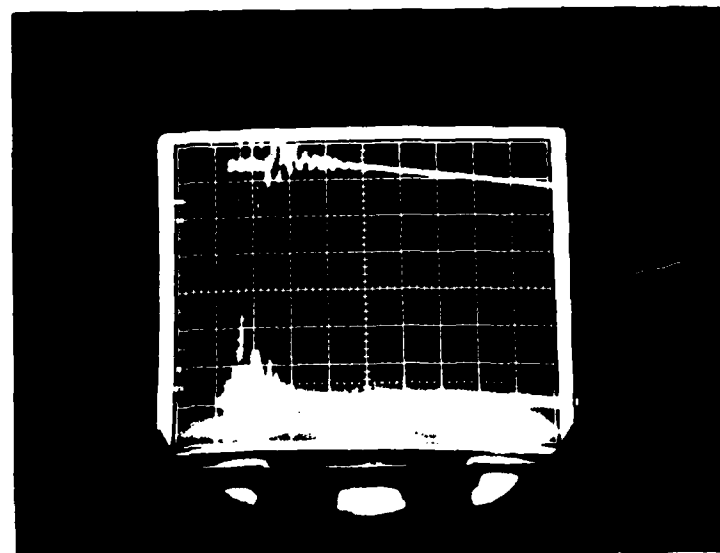
Date	5-28-85
Test Point	70-BL-1/10-N
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5kV
Data Link	
Comments:	334



334

* 600 V/div

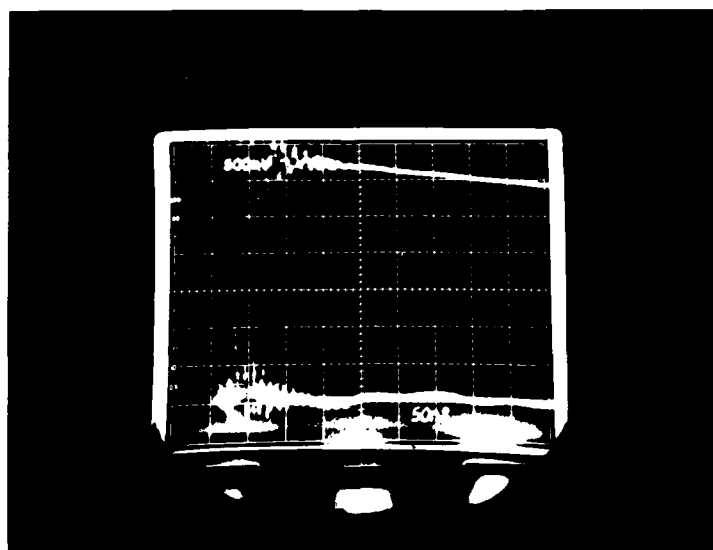
Date	5-28-85
Test Point	70R-BL-1/10-N
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5kV
Data Link	
Comments:	335



335

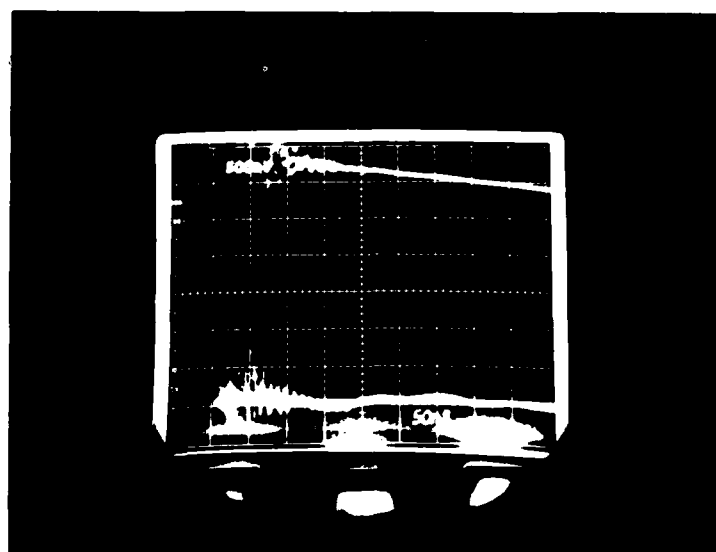
* 600 V/div

Date	5-28-85
Test Point	70-BL-1/10-0
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
* Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	336



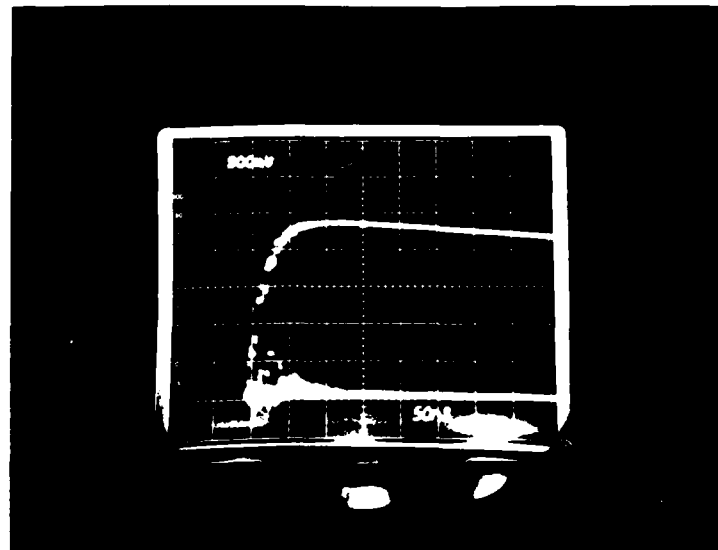
* 600V/div

Date	5-28-85
Test Point	70R-BL-1/10-0
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
* Vertical	.5V(1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4.5KV
Data Link	
Comments:	337



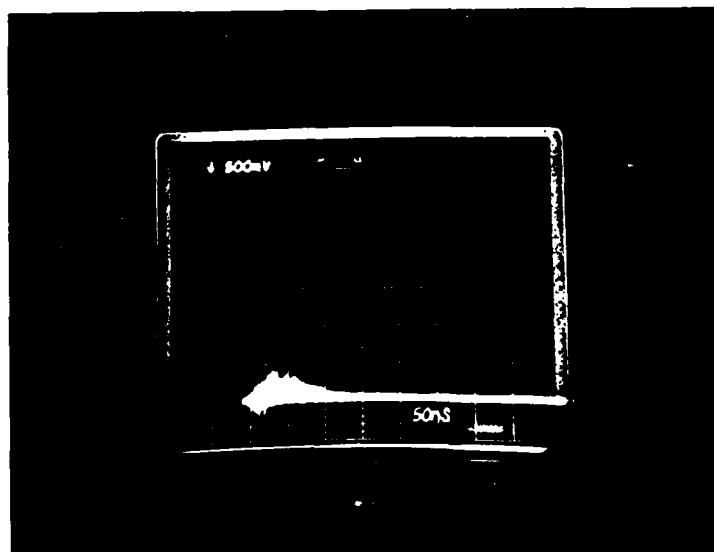
* 600V/div

Date	6-3-85
Test Point	71-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



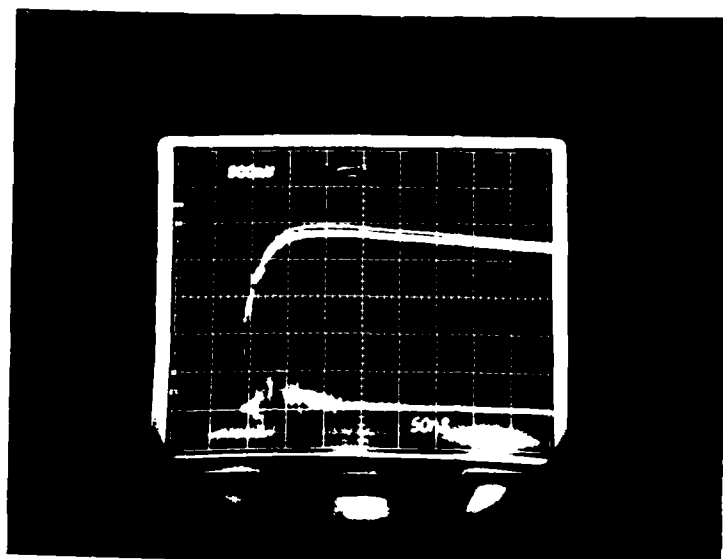
618

Date	6-3-85
Test Point	71R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	619



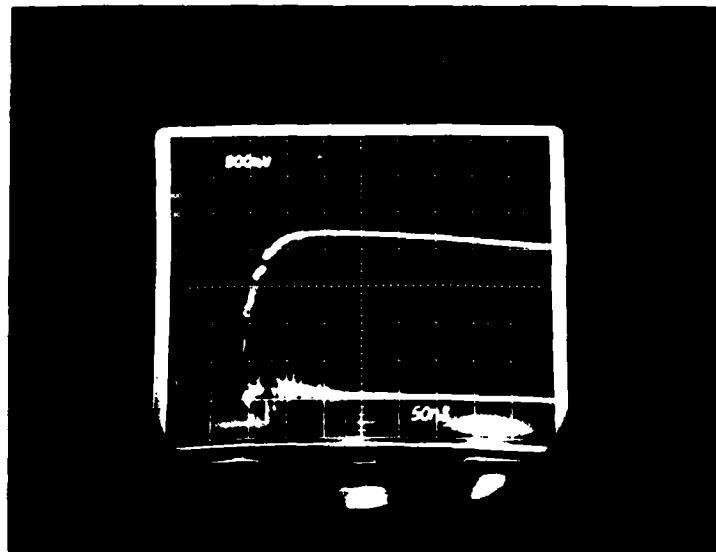
619

NO REF



622

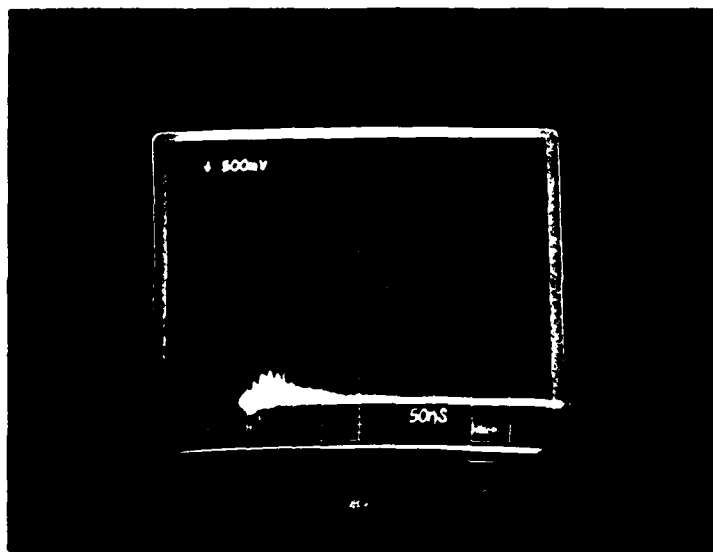
Date	6-3-85
Test Point	71-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	620



620

SEE 622 ON BACK FOR REF.
VOLTAGE ADJUSTED

Date	6-3-85
Test Point	71R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	621



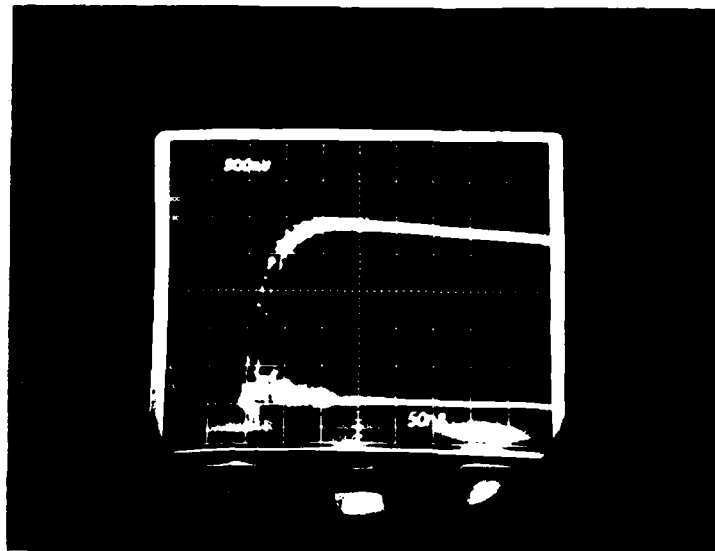
621

NO REF

Date	6-3-85
Test Point	71-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	

Comments:

623



623

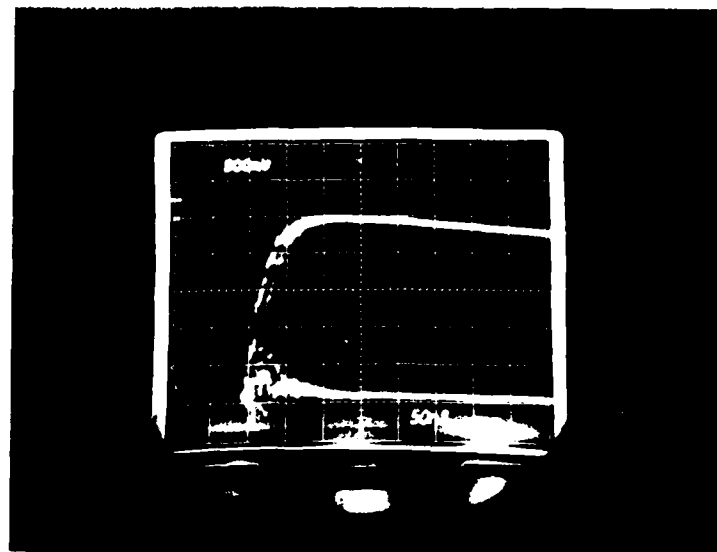
Date	6-3-85
Test Point	71R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	

Comments:



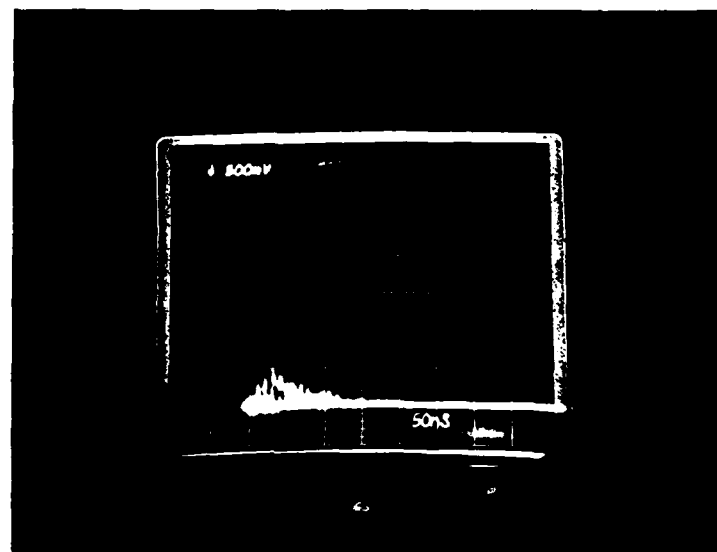
624

Date	6-3-85
Test Point	71-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500 V
Data Link	
Comments:	6.7



624

Date	6-3-85
Test Point	71R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500 V
Data Link	
Comments:	



625

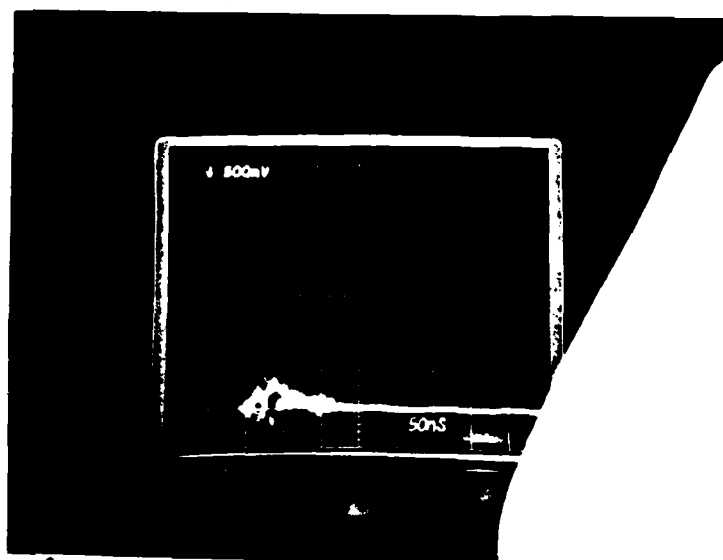
NO REF

Date	6-3-85
Test Point	71-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	



627

Date	6-3-85
Test Point	71R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	

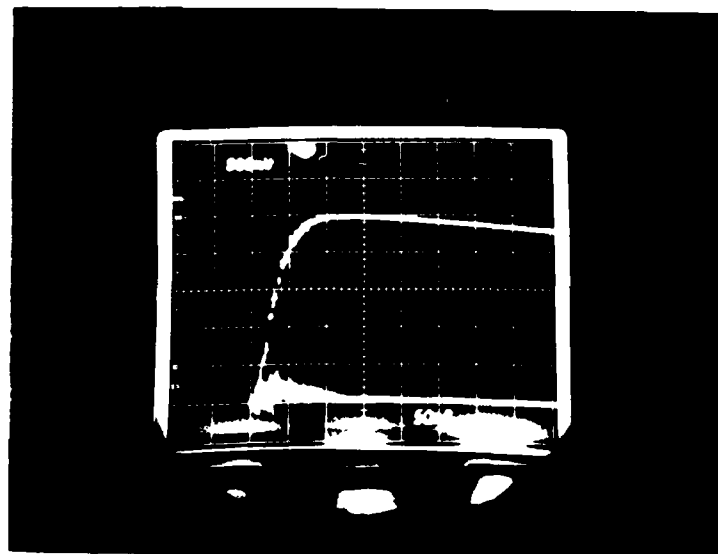


628

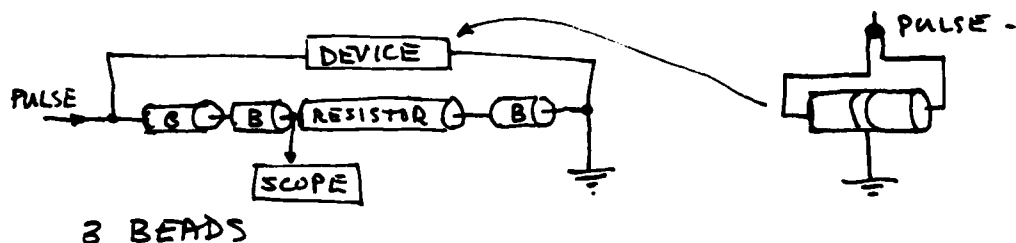
NO REF

- EXTRA -

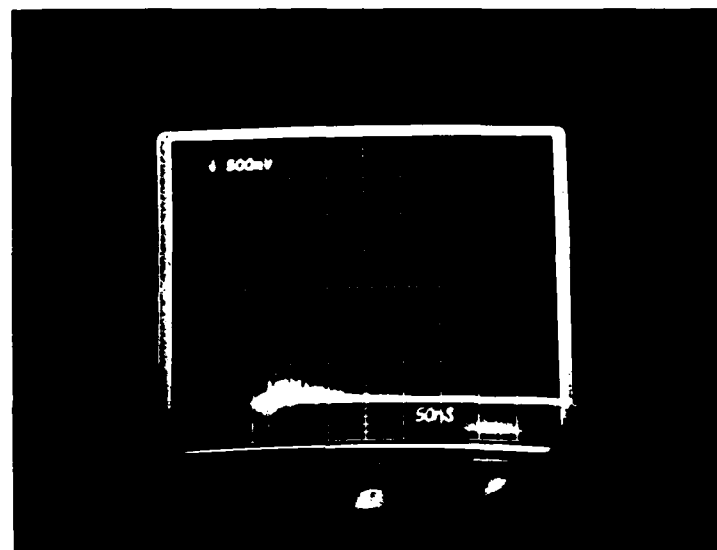
Date	6-4-85
Test Point	72-CL-1/10-A
Amplification	dB
Attenuation	50 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	



738-

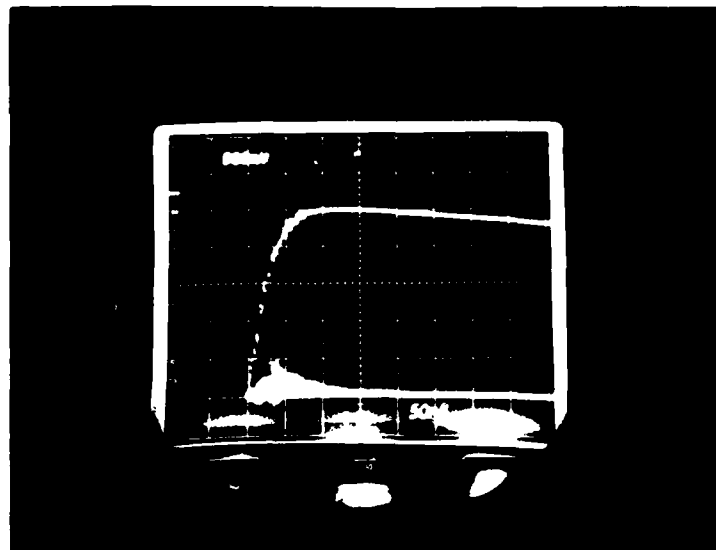


Date	6-4-85
Test Point	72R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



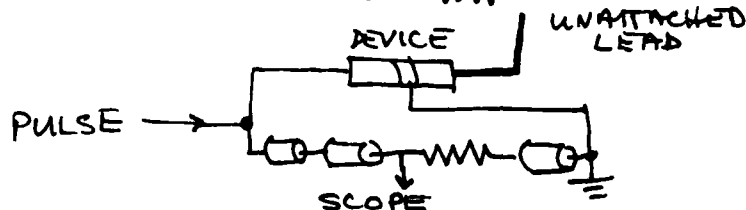
739

Date	6-4-85
Test Point	72-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	740

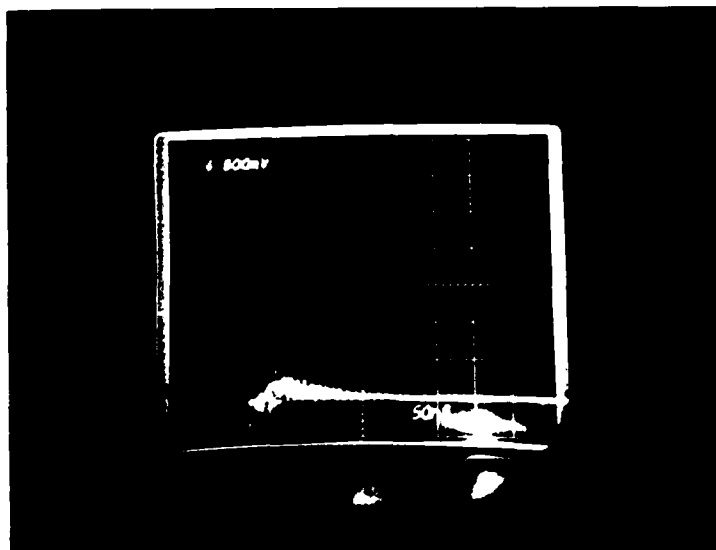


740

3-BEADS ON LOAD ———



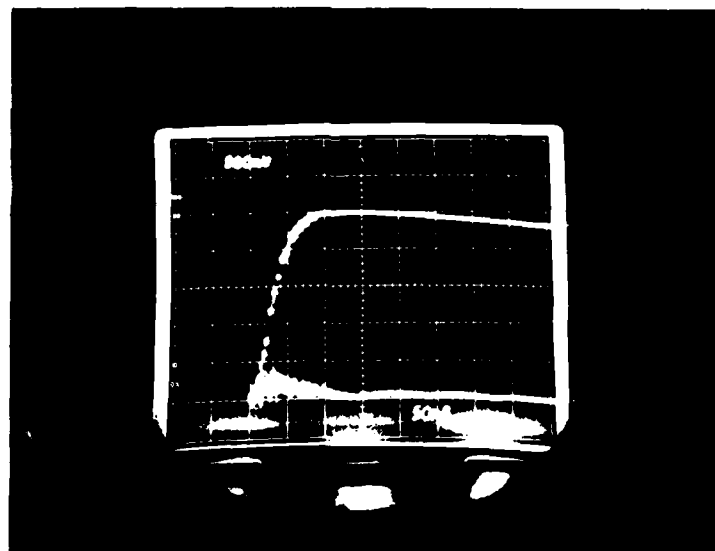
Date	6-4-85
Test Point	72R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	741



741

3-BEADS ON LOAD ———

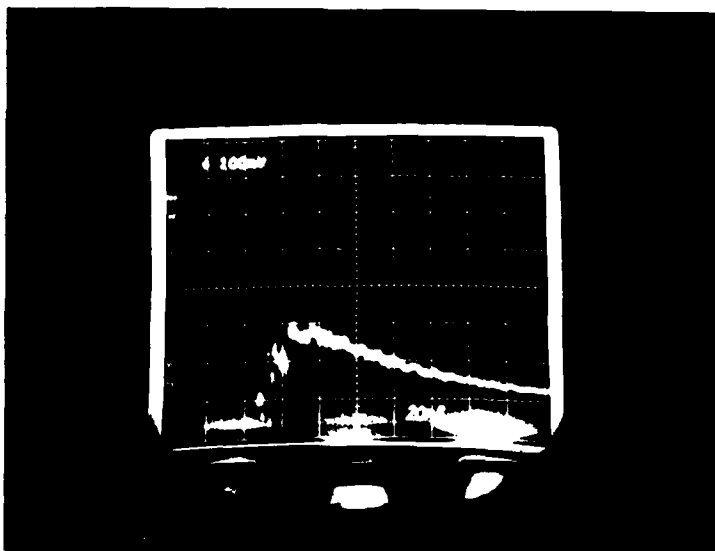
Date	6-4-85
Test Point	72-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4200V
Data Link	
Comments:	742



742

3 BEADS ON LOAD -MM

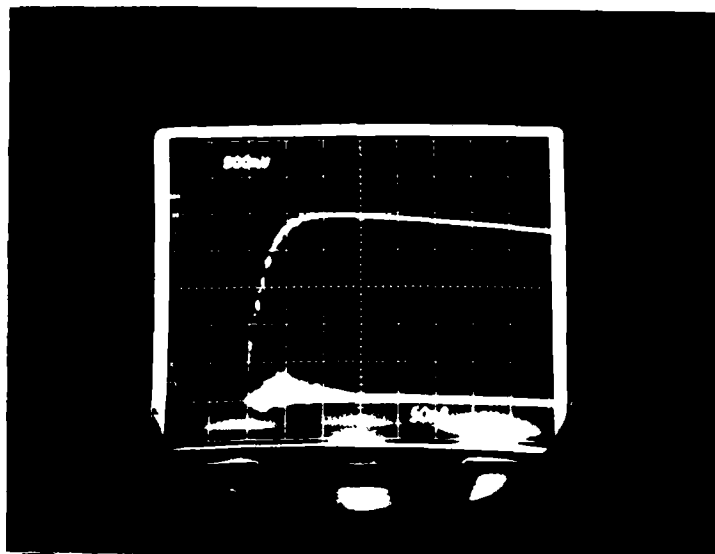
Date	6-4-85
Test Point	72R-CL-1/20-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	743



743

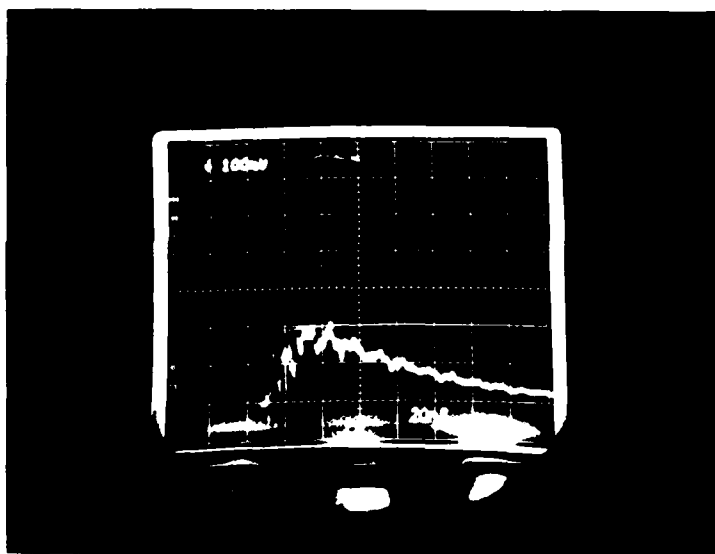
3 BEADS ON LOAD -MM

Date	6-4-85
Test Point	72-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500
Data Link	
Comments:	



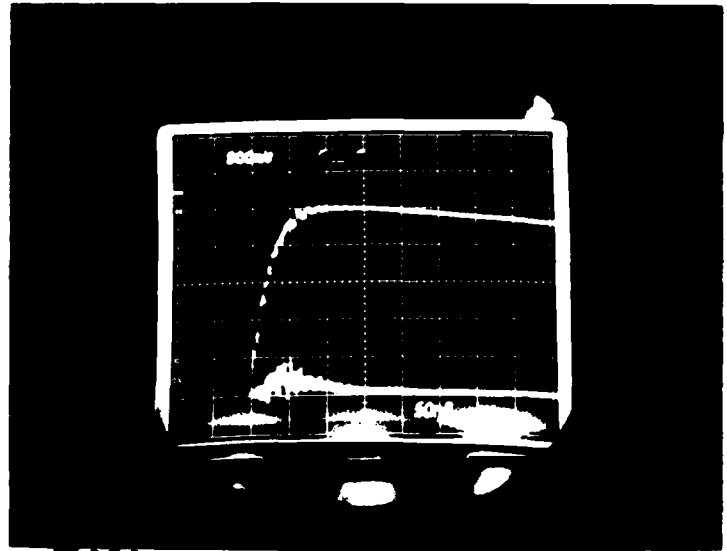
3-BEADS ON LOAD -MM-

Date	6-4-85
Test Point	72R-CL-1/20-C
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



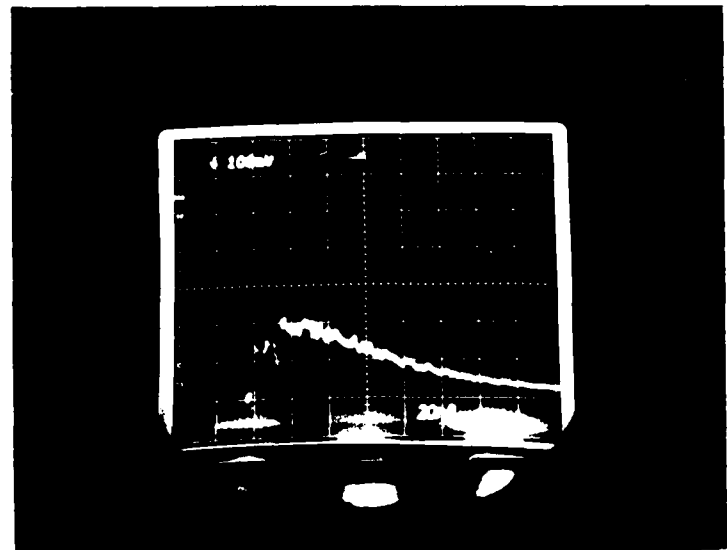
3 BEADS ON LOAD -MM-

Date	6-4-85
Test Point	72-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Date Link	
Comments:	746



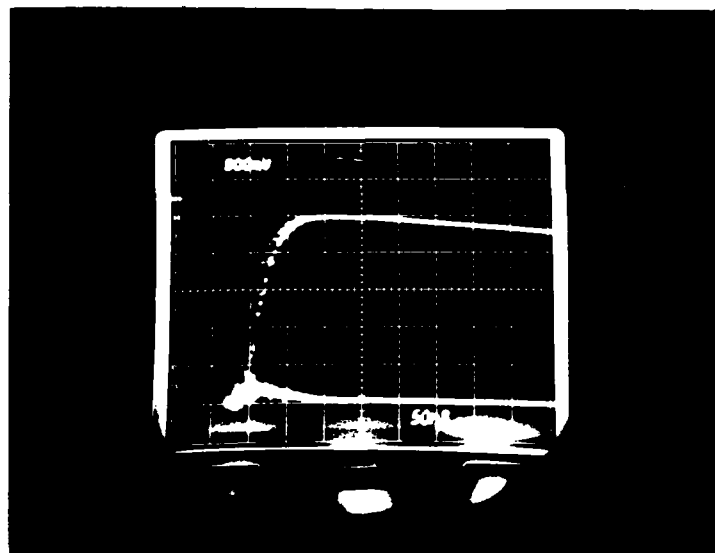
3 BEADS ON LOAD -MM-

Date	6-4-85
Test Point	72R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V(190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Date Link	
Comments:	747



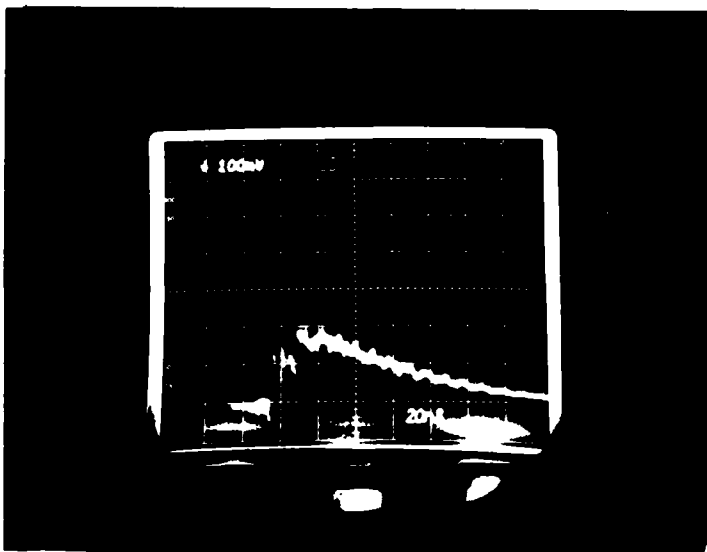
3 BEADS ON LOAD -MM-

Date	6-4-85
Test Point	72-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	7-8



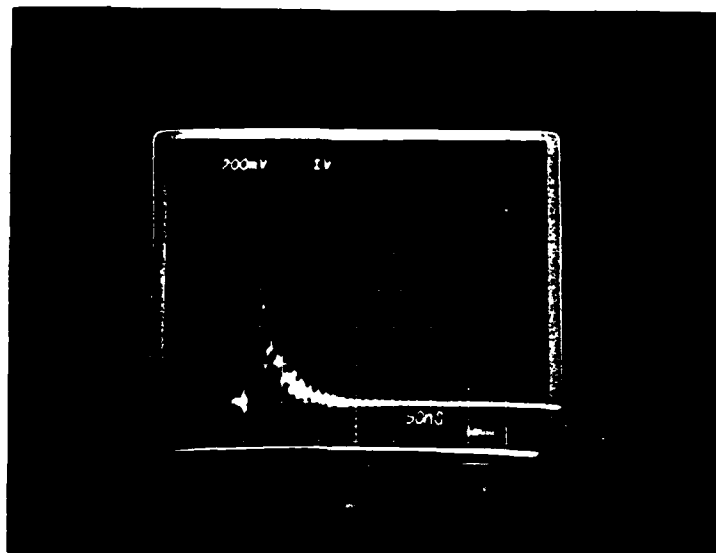
748

Date	6-4-85
Test Point	72R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	7-9



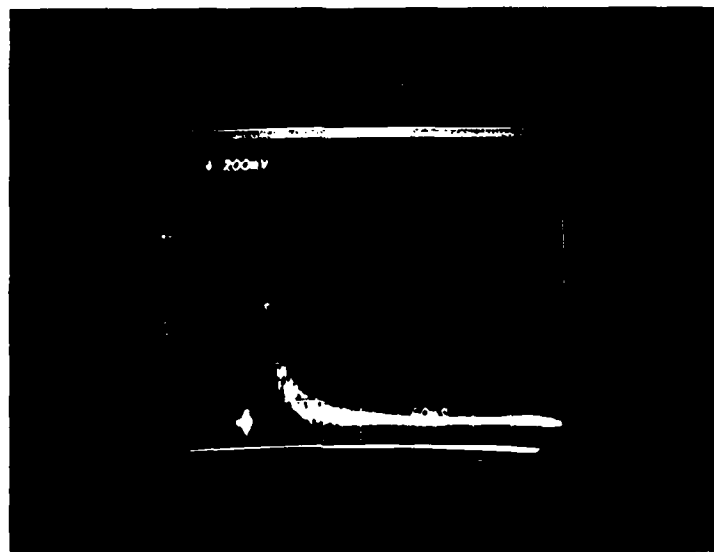
749

Date	5-29-85
Test Point	74-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4.5KV
Data Link	
Comments:	344



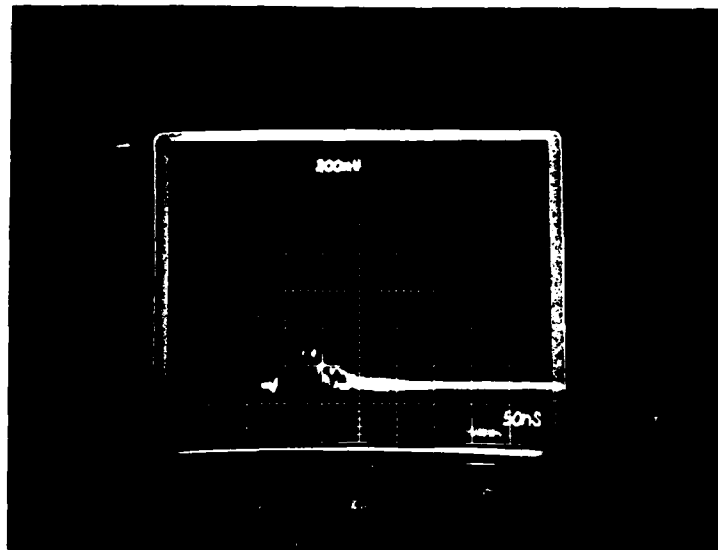
344

Date	5-29-85
Test Point	74R-CL-1/10-Ø
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.2V (480V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4.5KV
Data Link	
Comments:	345



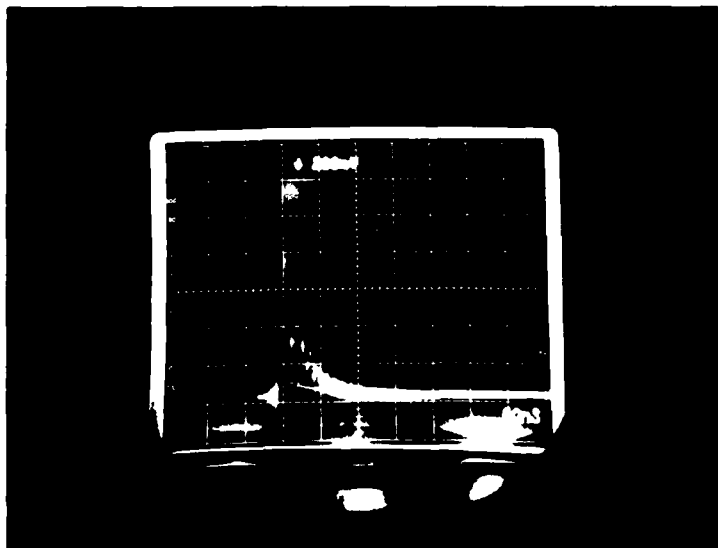
345

Date 5-29-85
 Test Point 74-CL-1/10-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .2V(480V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level +4500V
 Data Link
 Comments: 351



351

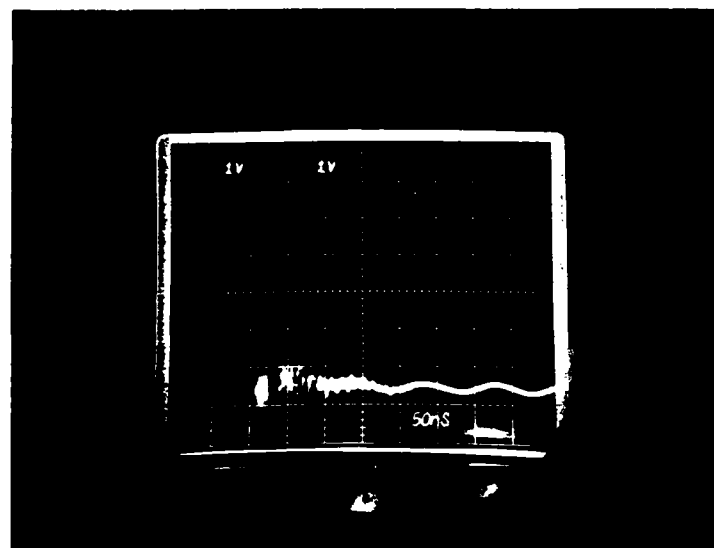
Date 5-29-85
 Test Point 74R-CL-1/10-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .2V(480V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level -4500V
 Data Link
 Comments: 352



352

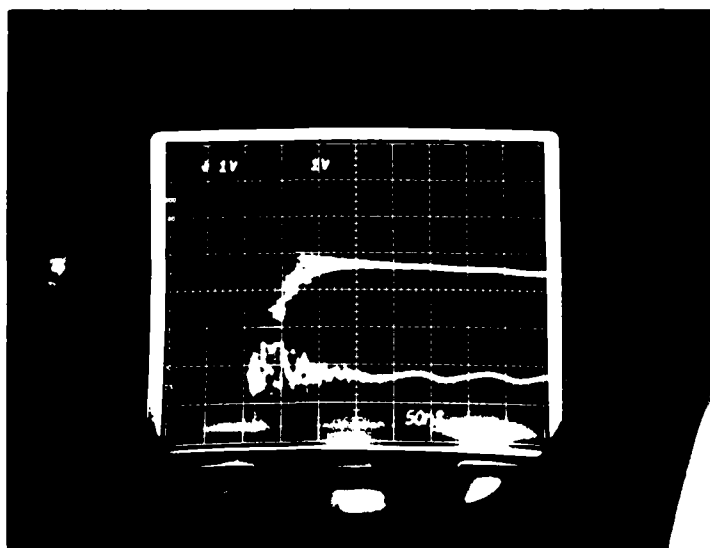
REF. PULSE = Vertical

Date 5-29-85
 Test Point 75-CL-1/10-Ø
 Amplification 0 dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical .1(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level +4500V
 Data Link
 Comments: 358



358

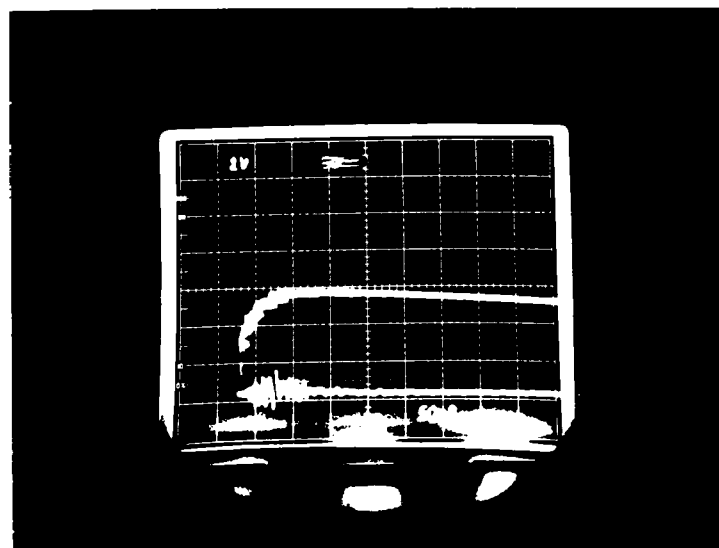
Date 5-29-85
 Test Point 75R-CL-1/10-Ø
 Amplification dB
 Attenuation 20 dB
 Horizontal 50 ns/div 1
 Vertical 0.1V(1900V) mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulser Level -4500V
 Data Link
 Comments: 359



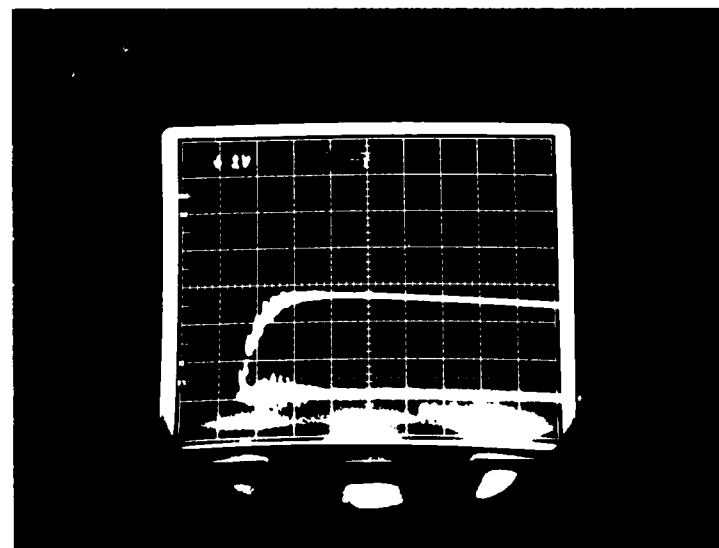
359

REF: VERTICAL
 1.V (1900V) per div

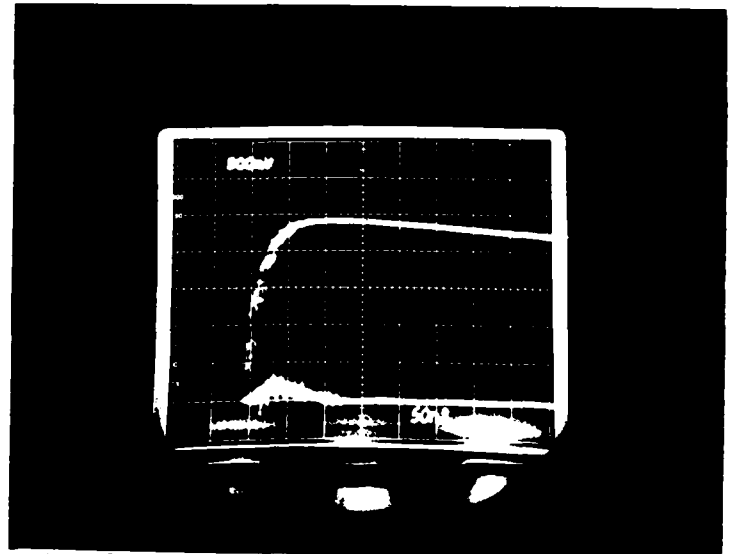
Date	5-31-85		
Test Point	76-CL-1/p-φ		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+ 4500V		
Data Link			
Comments:	510 HOT COMMON (NEW)		



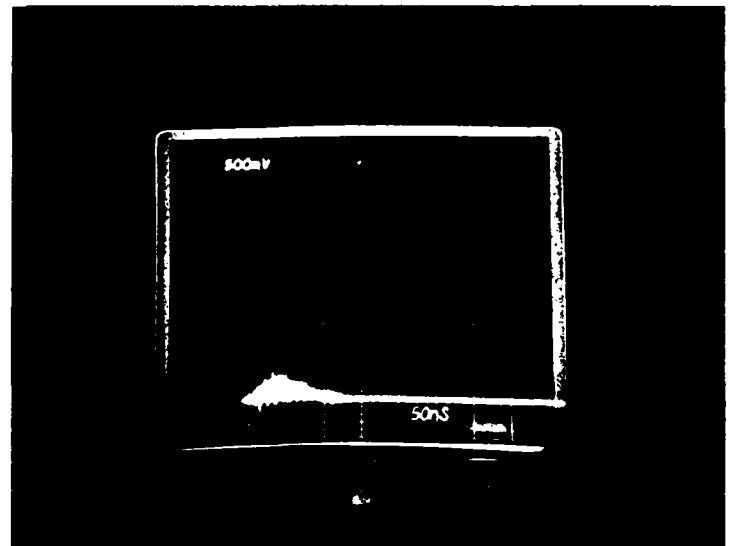
Date	5-31-85		
Test Point	76R-CL-1/10-φ		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	1V(1900V)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	- 4500V		
Data Link			
Comments:	511 HOT COMMON (NEW)		



Date	6-4-85
Test Point	78-CL-10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500 V
Data Link	
Comments:	629



Date	6-3-85
Test Point	78R-CL-10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500 V
Data Link	
Comments:	630



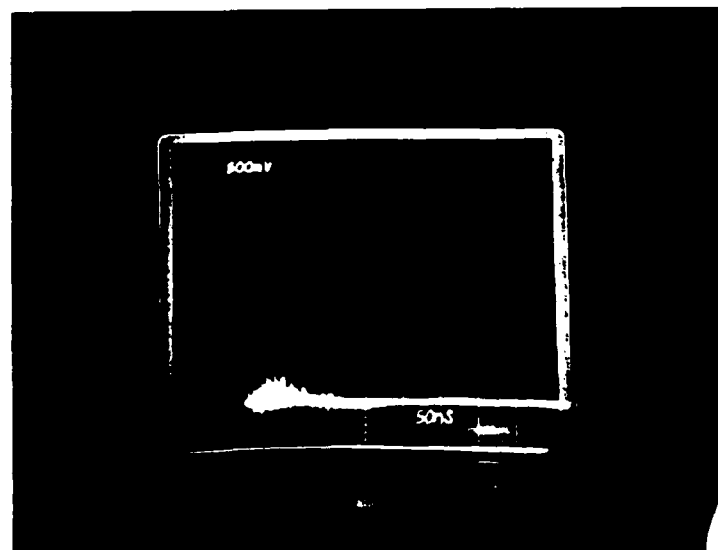
NO REF

Date	6-4-85
Test Point	78-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	631



631

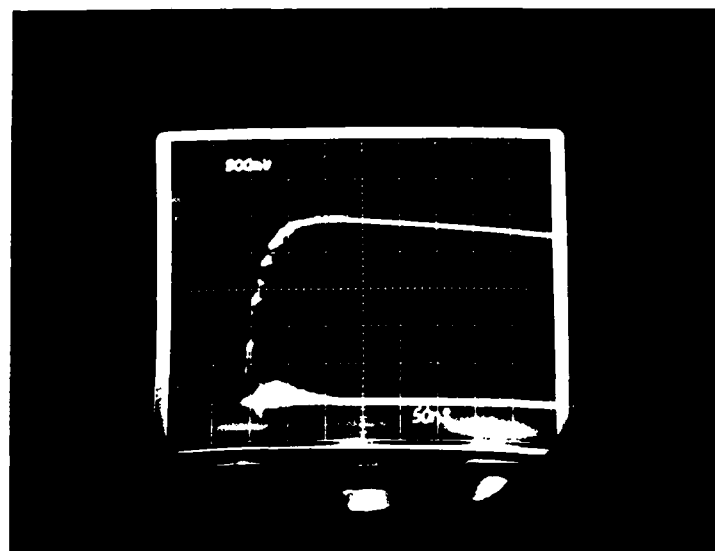
Date	6-3-85
Test Point	78R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



632

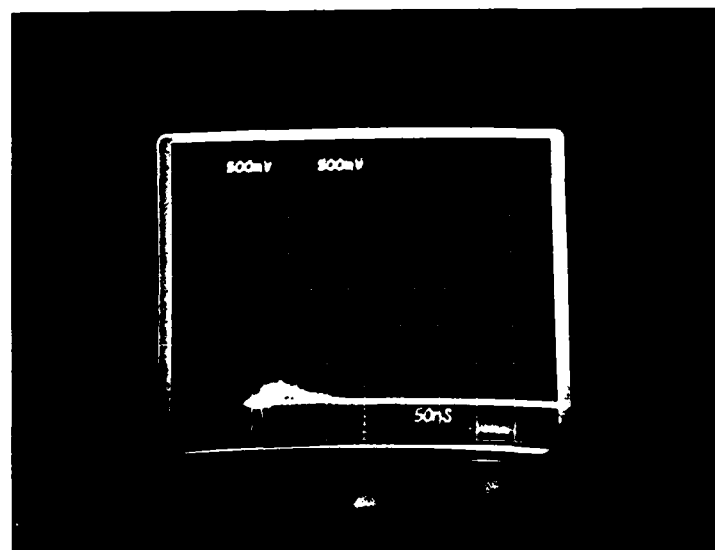
NO REF

Date	6-3-85
Test Point	78-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	633



633

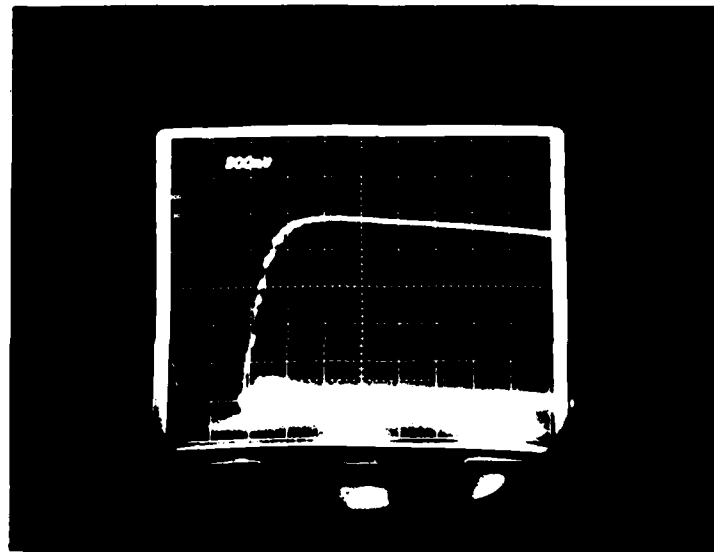
Date	6-3-85
Test Point	78R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	634



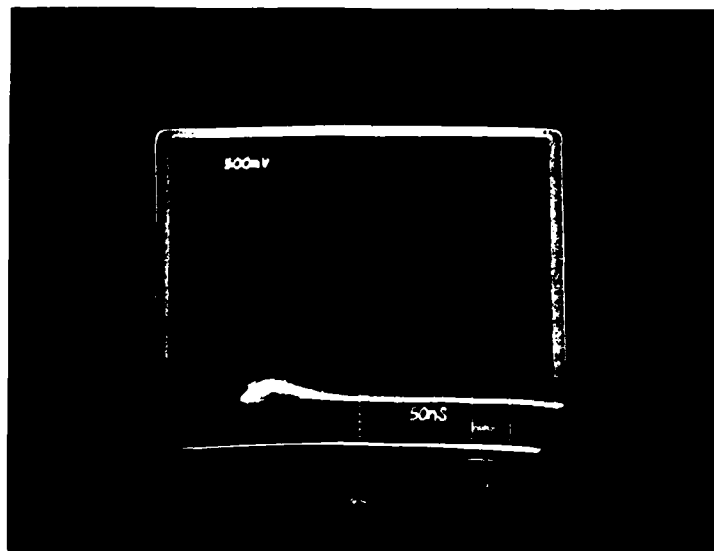
634

NO REF

Date	6-3-85
Test Point	78-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	635

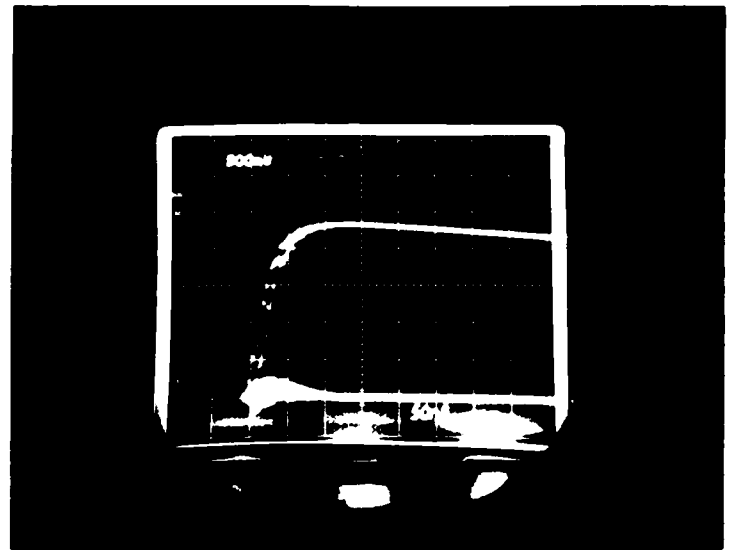


Date	6-3-85
Test Point	78R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	636

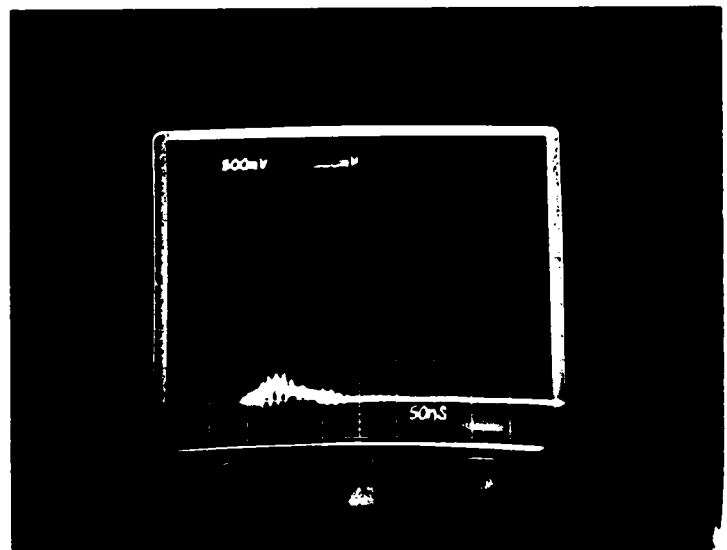


NO REF

Date	6-4-85
Test Point	78-CL-110-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+ 4500 V
Data Link	
Comments:	637



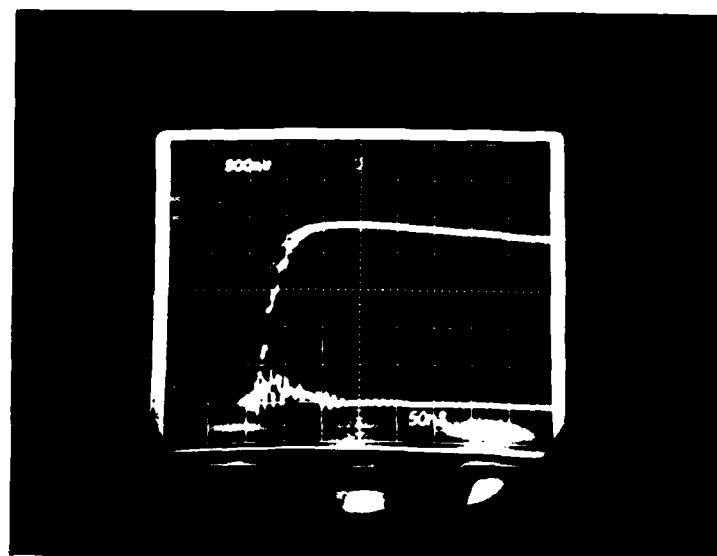
Date	6-3-85
Test Point	78R-CL-110-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	- 4500 V
Data Link	
Comments:	638



NO REF

Date	6-4-85
Test Point	81-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	

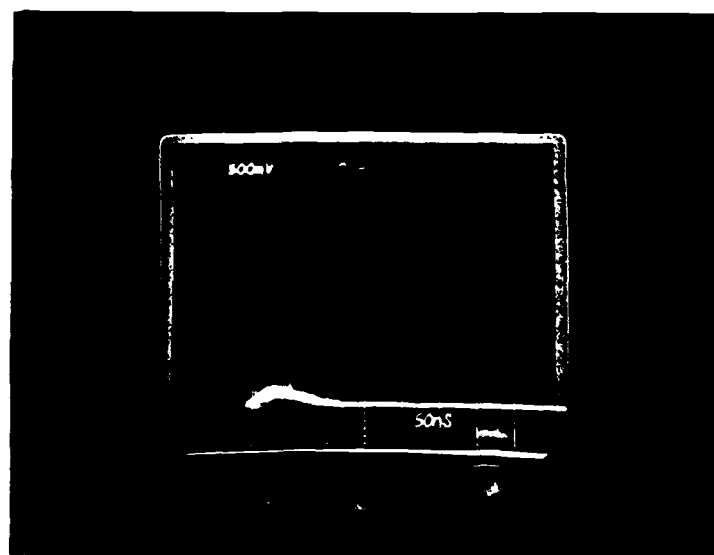
Comments: 639



639

Date	6-4-85
Test Point	81R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	

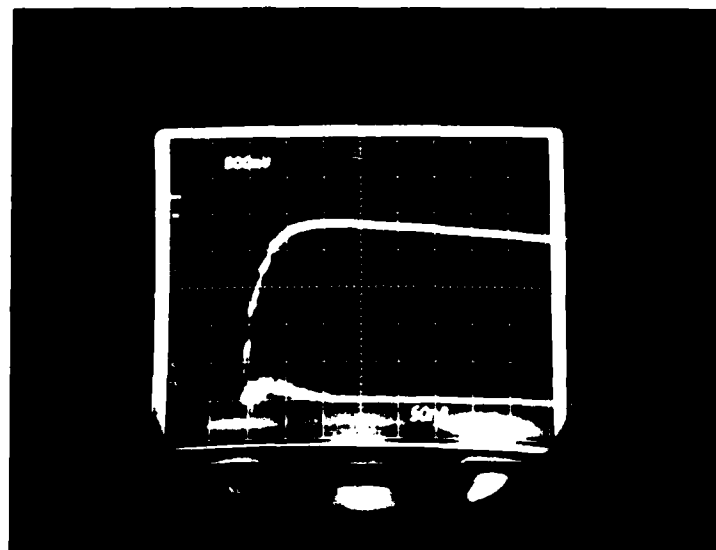
Comments: 640



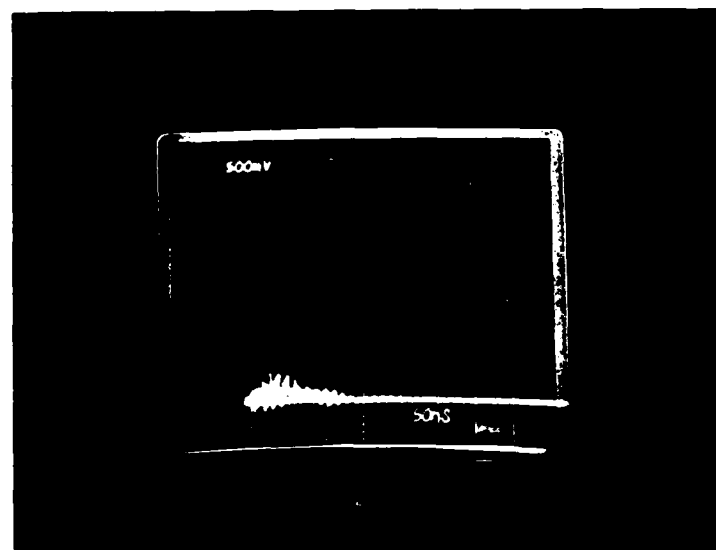
640

NO REP

Date	6-4-85		
Test Point	81-CL-1/10-B		
Amplification	dB		
Attenuation	20 dB		
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level	+4500 V		
Data Link			
Comments:	641		

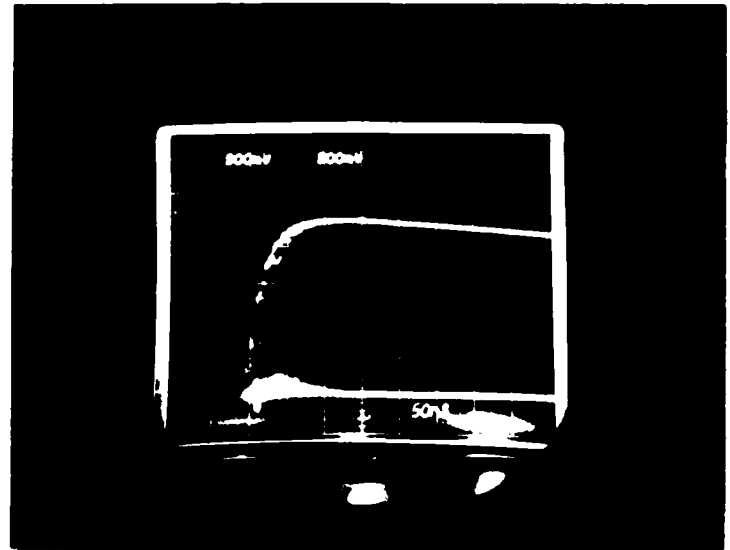


Date	6-4-85		
Test Point	81R-CL-1/10-B		
Amplification	dB		
Attenuation	20 dB		
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulse Level	-4500 V		
Data Link			
Comments:	642		

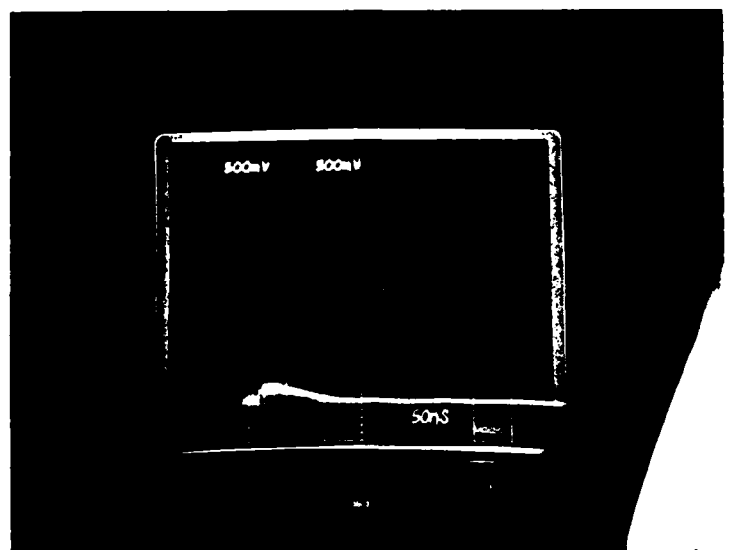


NO REF

Date	6-4-85
Test Point	81-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	643

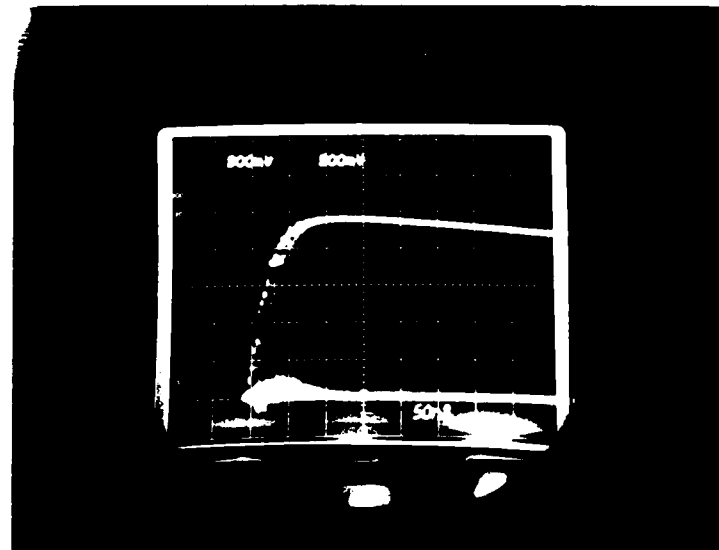


Date	6-4-85
Test Point	81RCL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

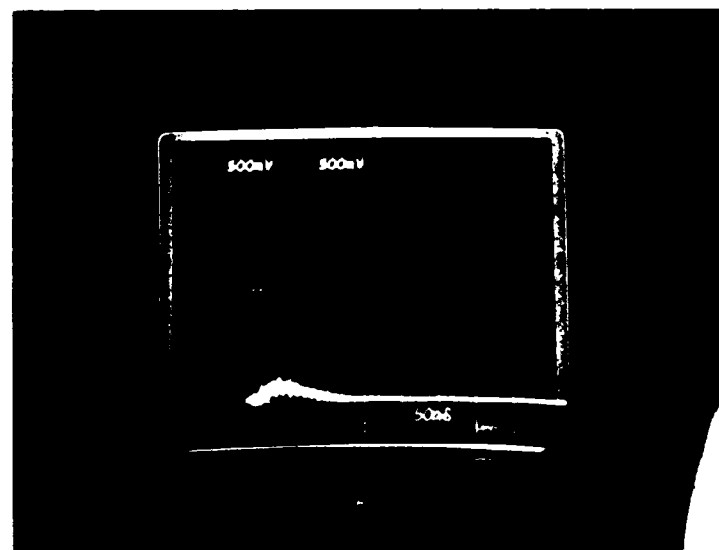


NO REF

Date	6-4-85
Test Point	81-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	645

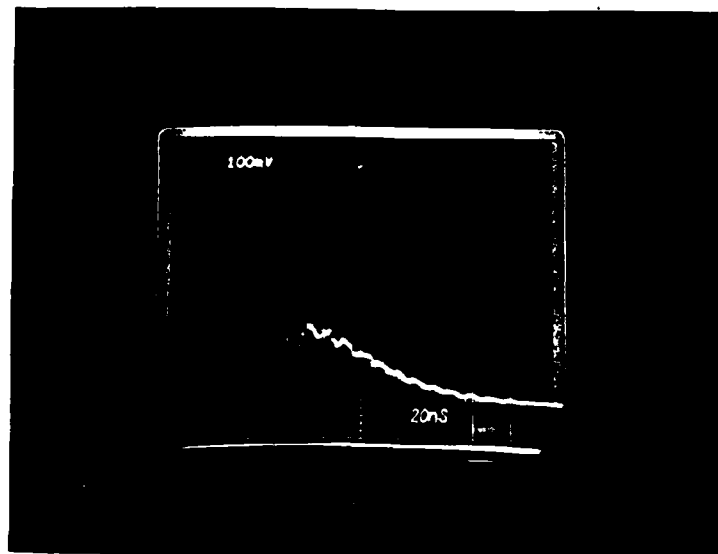


Date	6-4-85
Test Point	81R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



NO REF

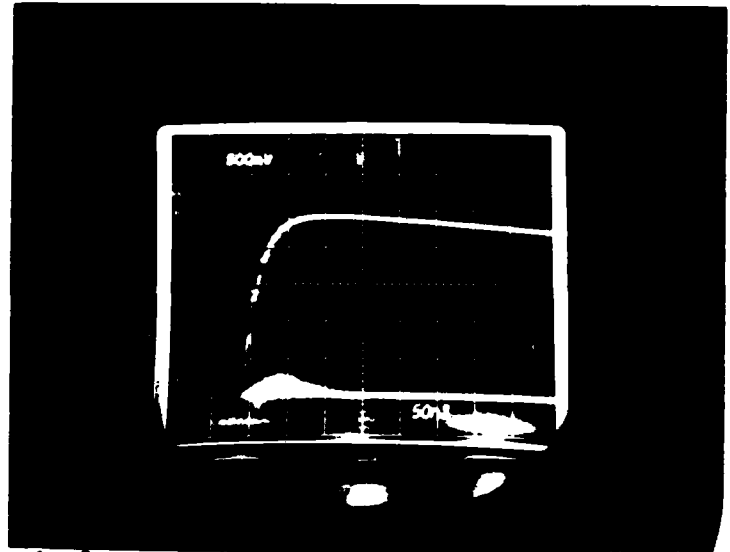
Date	6-4-85
Test Point	81-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	



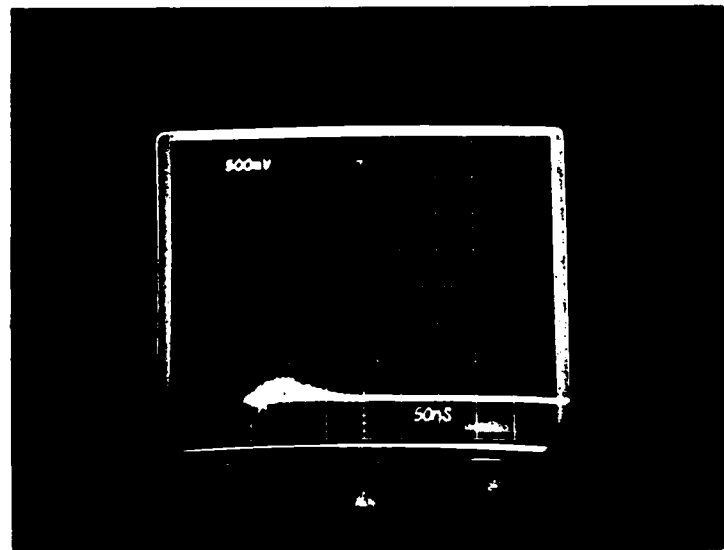
647

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	81-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	649



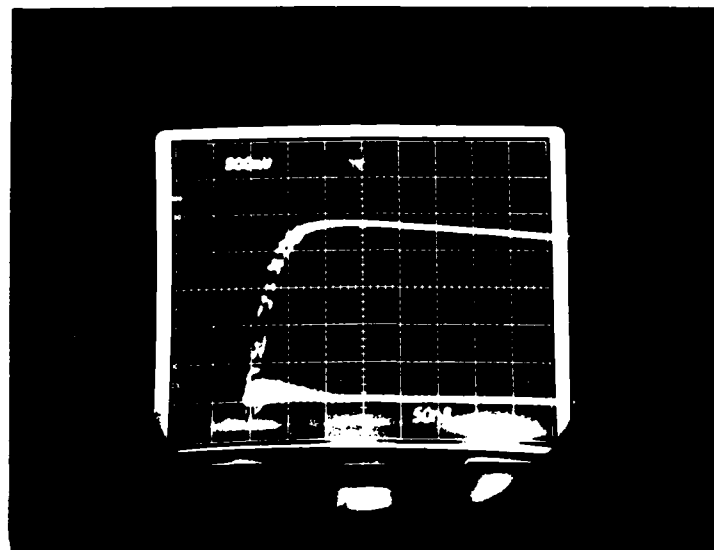
Date	6-4-85
Test Point	81R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	649



Date	6-4-85
Test Point	84-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	

Comments:

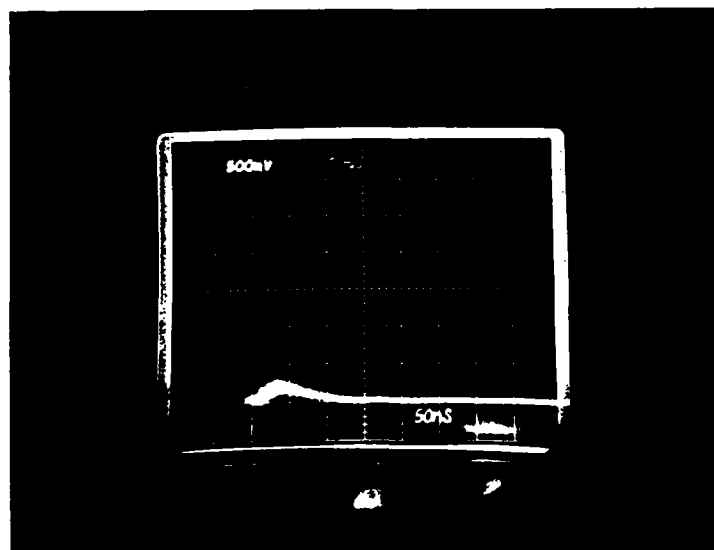
650



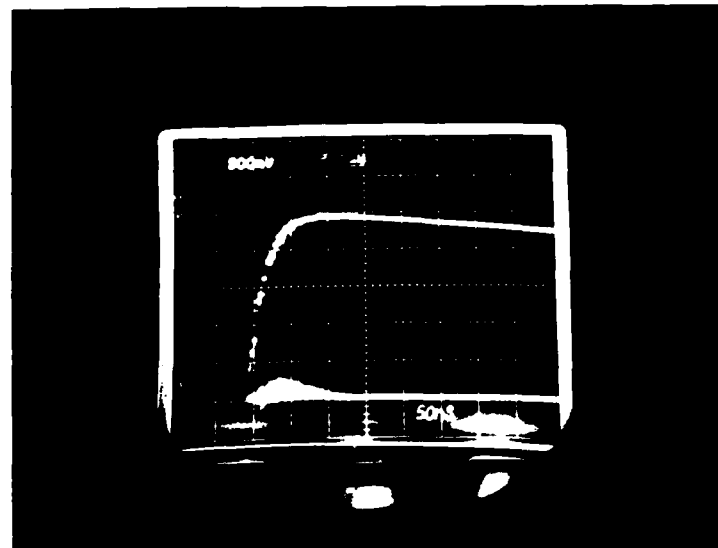
Date	6-4-85
Test Point	84R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	

Comments:

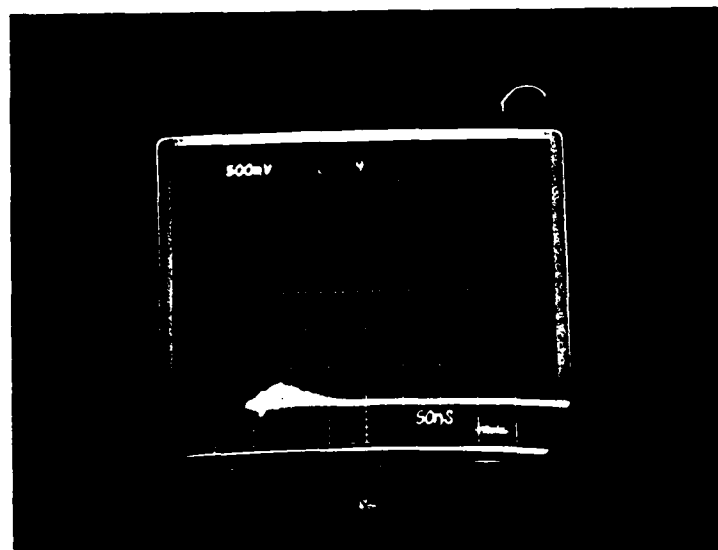
651



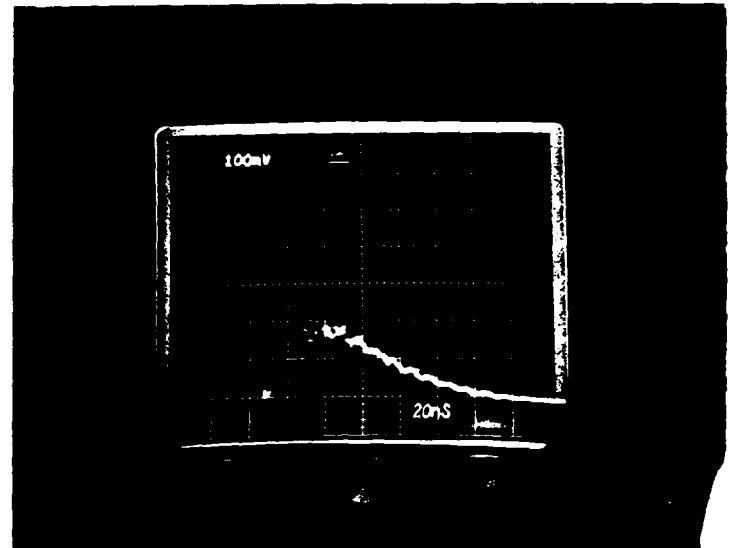
Date	6-4-85
Test Point	84-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V. (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	652



Date	6-4-85
Test Point	84R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	653



Date	6-4-85
Test Point	84R-CL-400-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV /div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	654

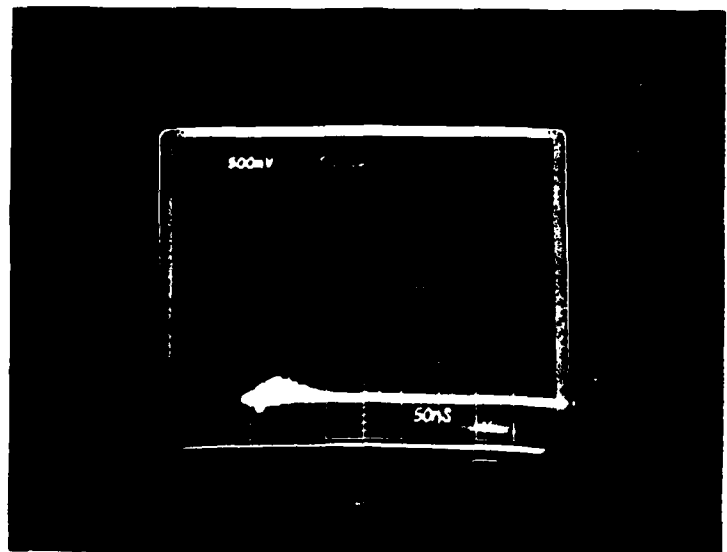


Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

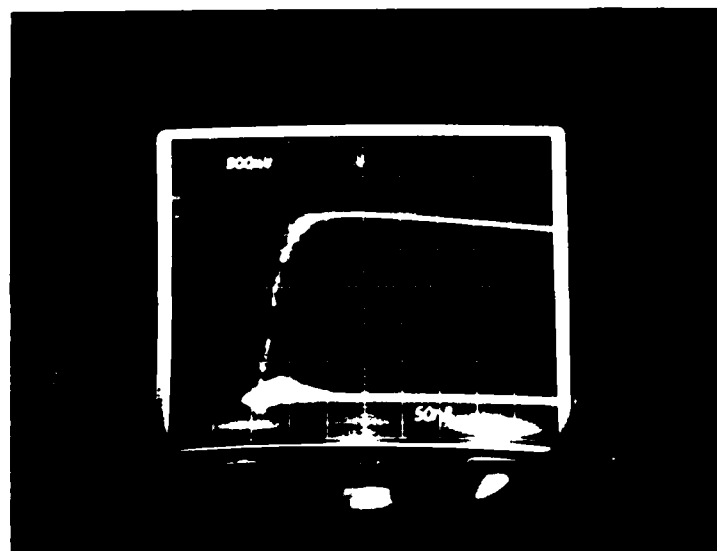
Date	6-4-85
Test Point	84-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	655



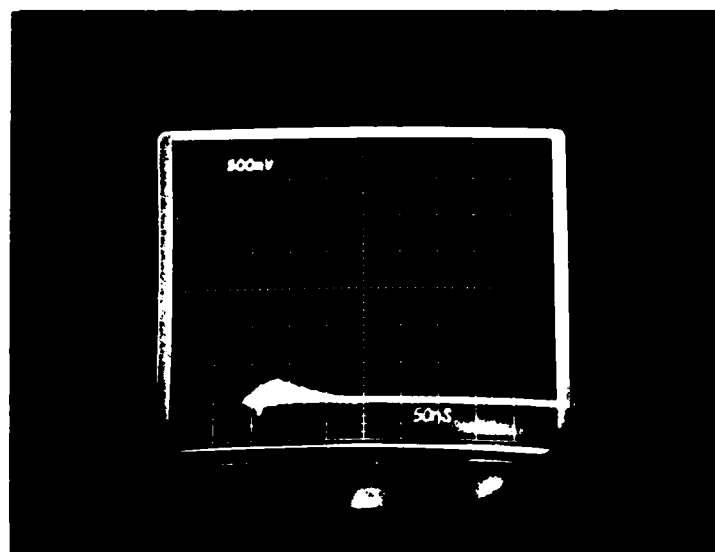
Date	6-4-85
Test Point	84R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	656



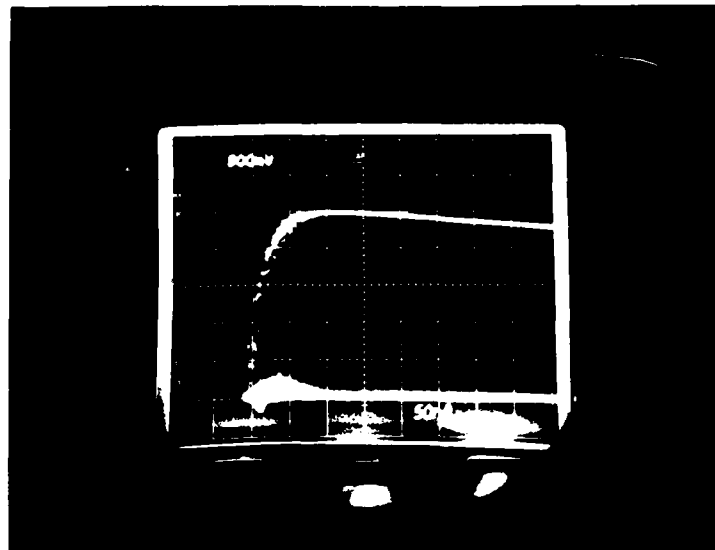
Date	6-4-85
Test Point	84-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	657



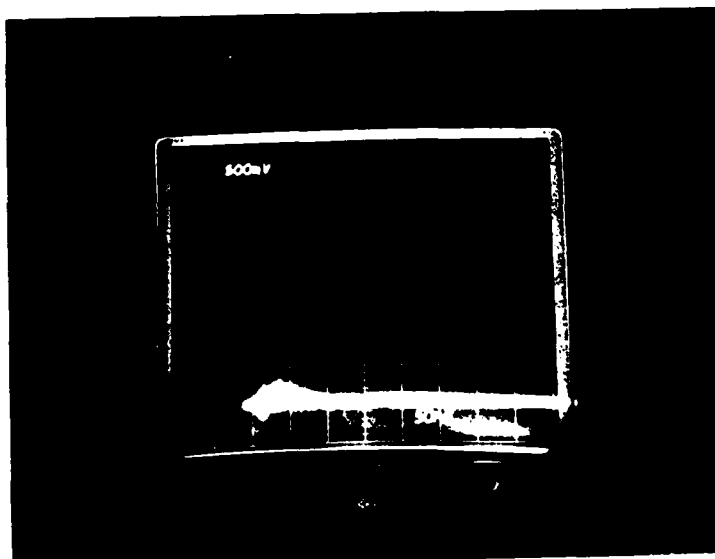
Date	6-4-85
Test Point	84R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	658



Date	6-4-85
Test Point	84-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 ✓
Data Link	
Comments:	651

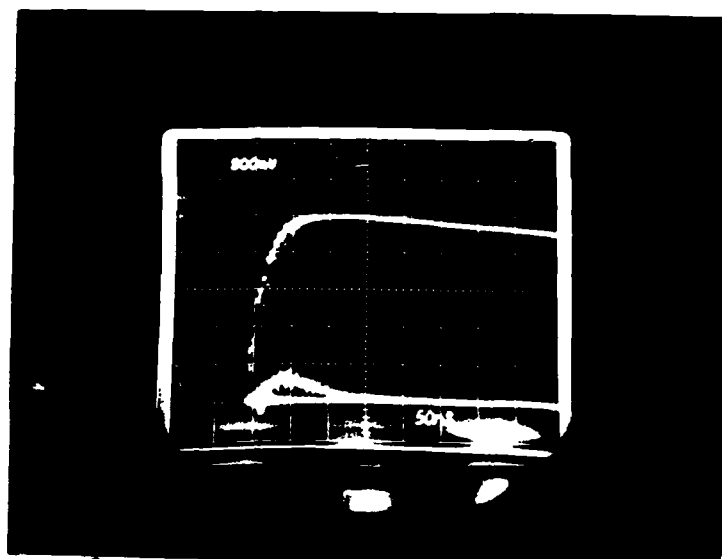


Date	6-4-85
Test Point	84R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 ✓
Data Link	
Comments:	



Date	6-4-85
Test Point	87-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	

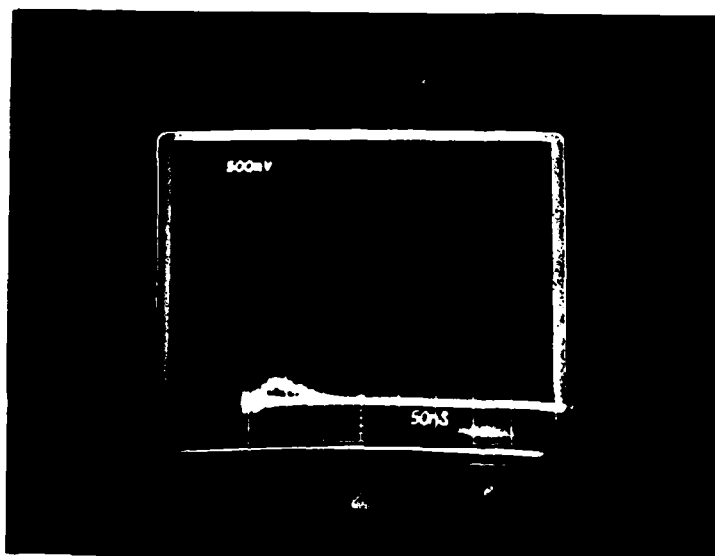
661



661

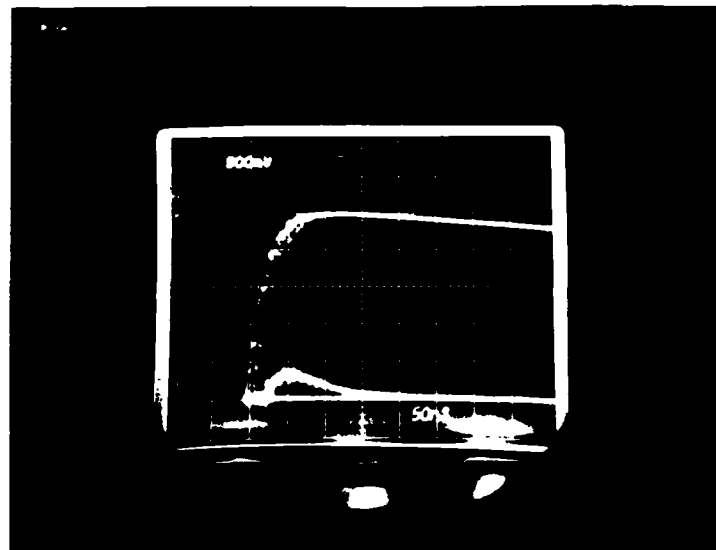
Date	6-4-85
Test Point	87R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	

662



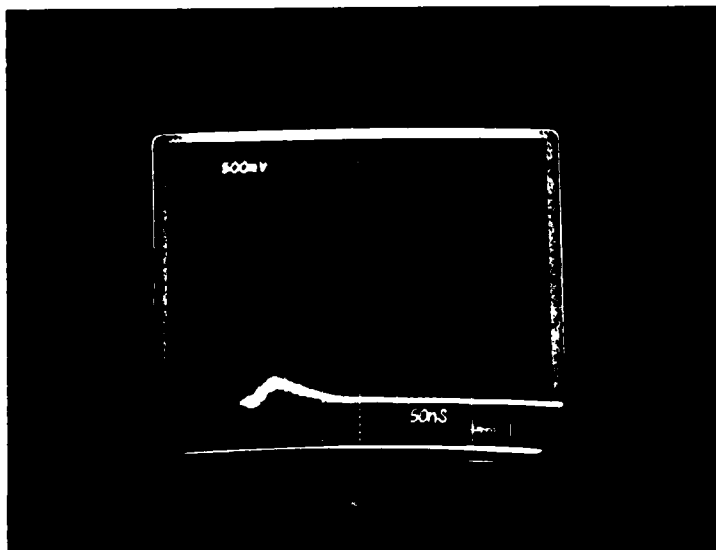
662

Date	6-4-85
Test Point	87-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	663



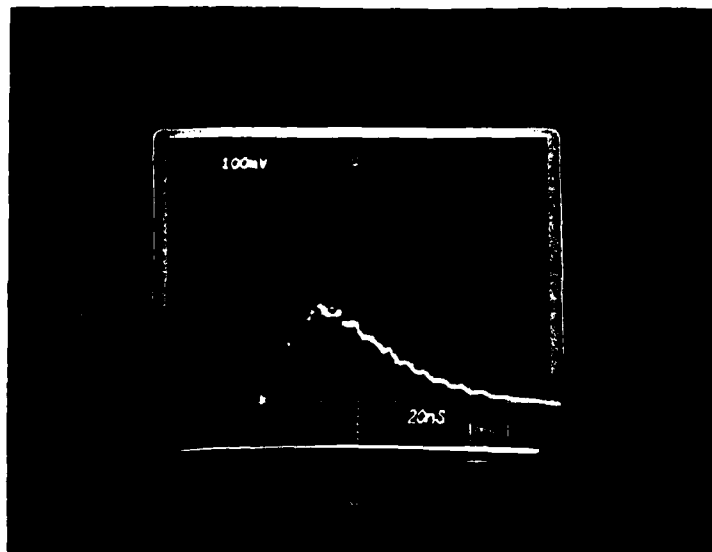
663

Date	6-4-85
Test Point	87R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	664



664

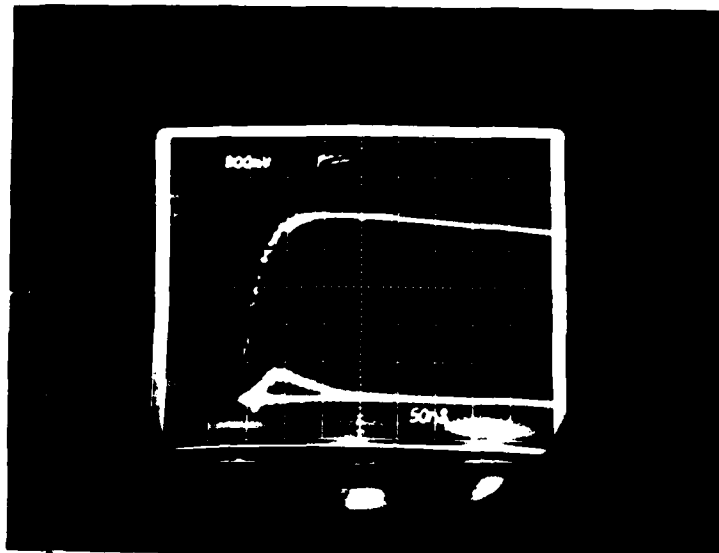
Date	6-4-85
Test Point	87R-CL-110-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



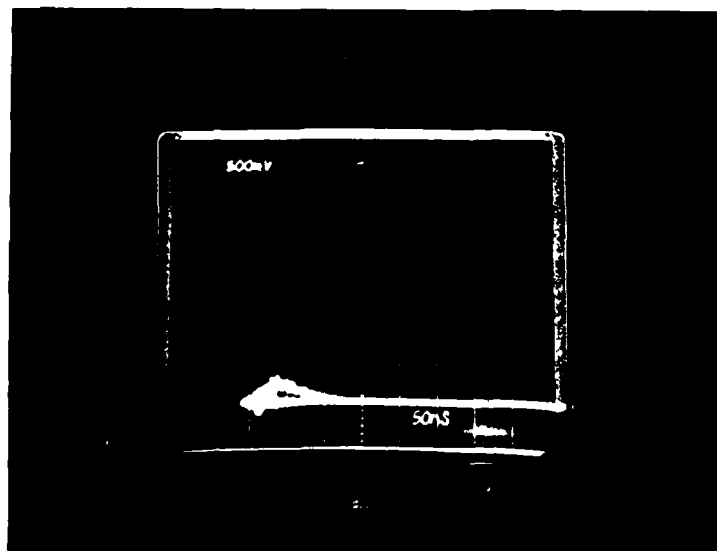
665

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	
Data Link	
Comments:	

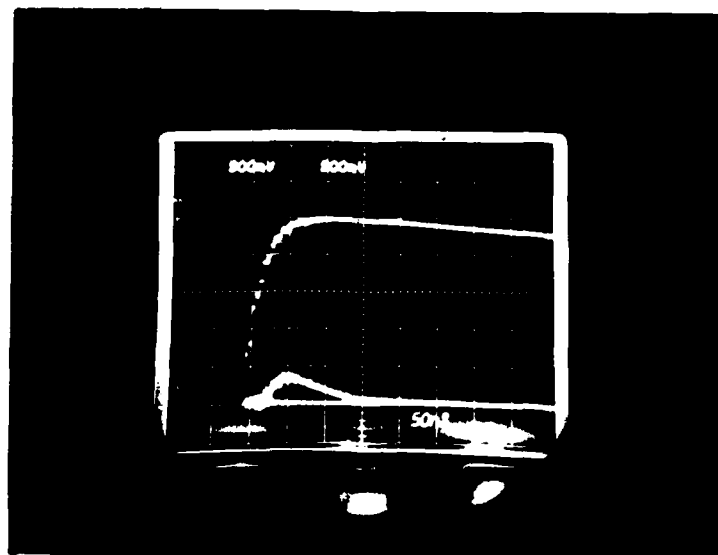
Date	6-4-85
Test Point	87-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	666



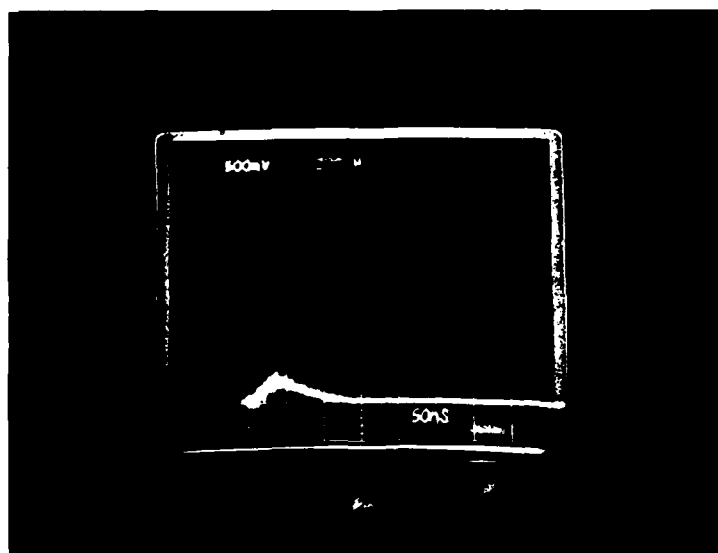
Date	6-4-85
Test Point	87R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	667



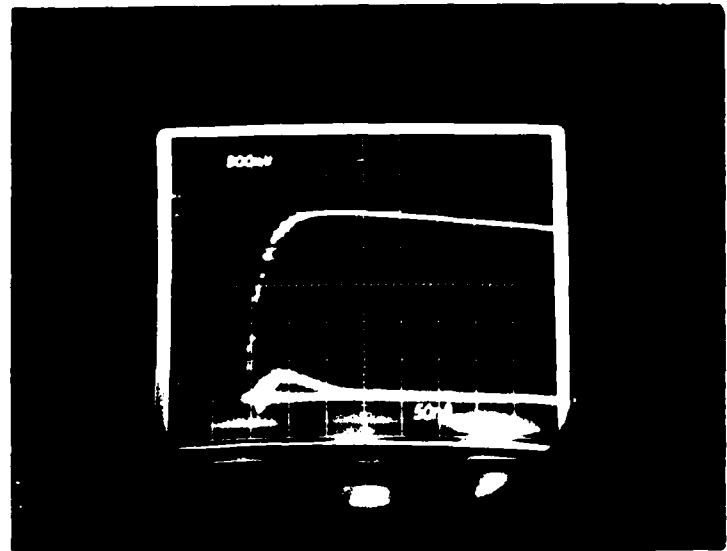
Date	6-4-85
Test Point	87-CL-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	668



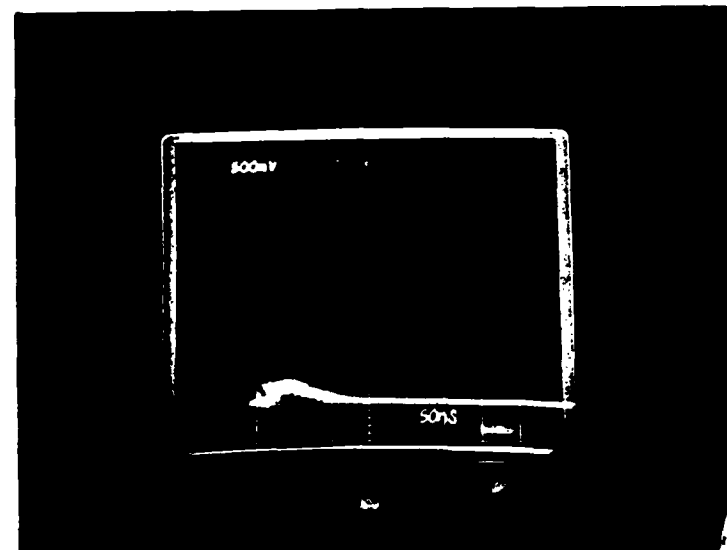
Date	6-4-85
Test Point	87R-4L-410-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	669



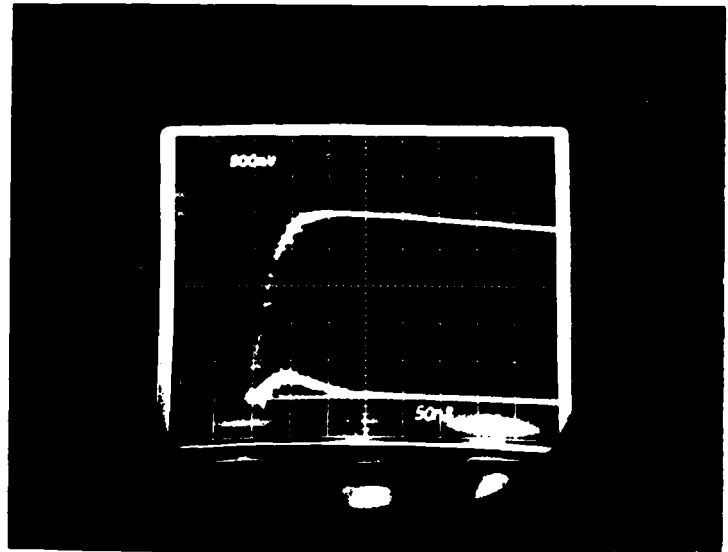
Date	6-4-85
Test Point	87-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	670



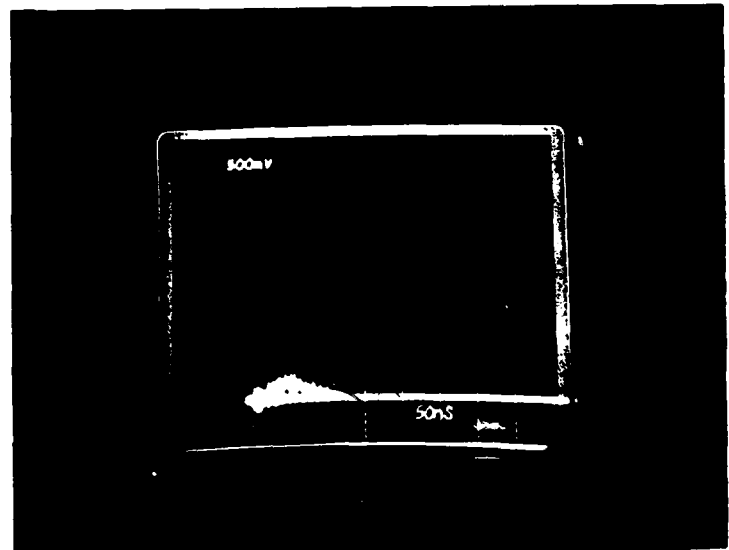
Date	6-4-85
Test Point	87R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	671



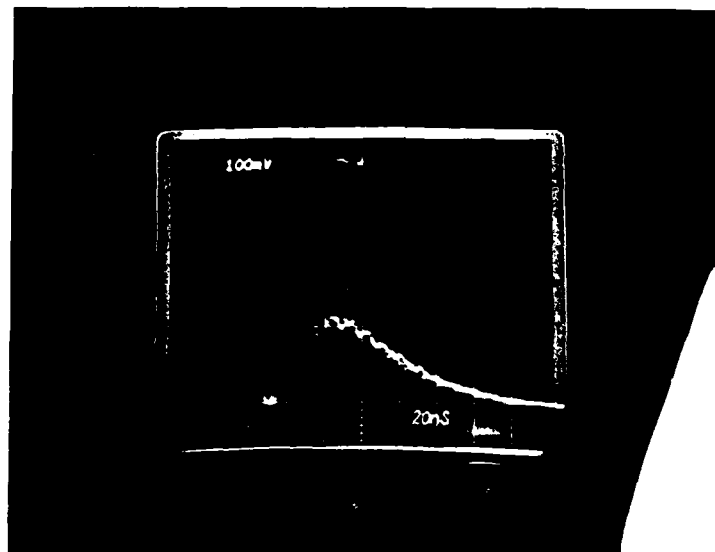
Date	6-4-85
Test Point	90-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	672



Date	6-4-85
Test Point	90R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	673

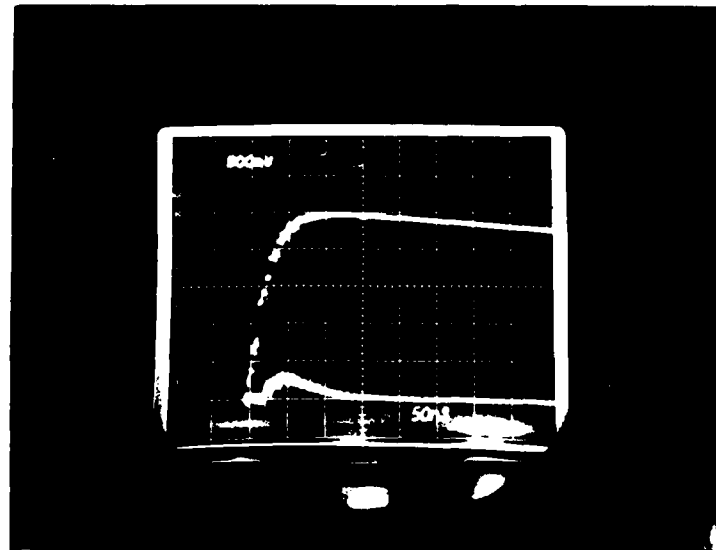


Date	6-4-85		
Test Point	90R-CL-1/10-A		
Amplification	dB		
Attenuation	20	dB	
Horizontal	20	ns/div	1
Vertical	.1V (190)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	- 4500 V		
Data Link			
Comments:	674		

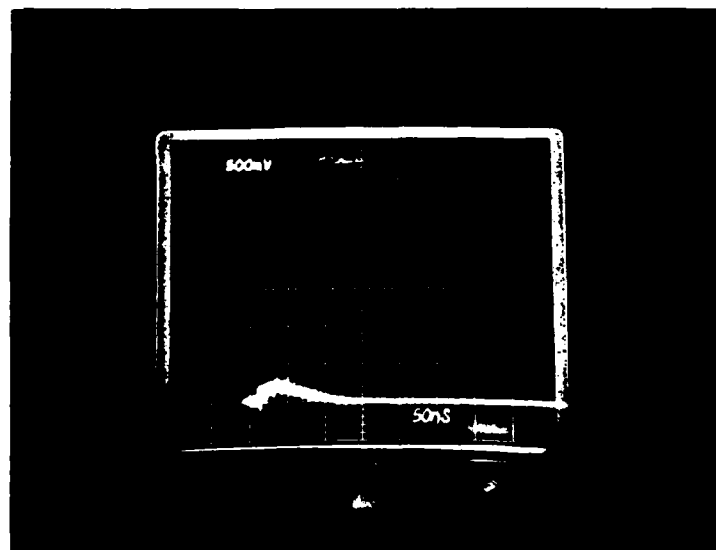


Date			
Test Point			
Amplification	dB		
Attenuation	dB		
Horizontal		ns/div	1
Vertical		mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level			
Data Link			
Comments:			

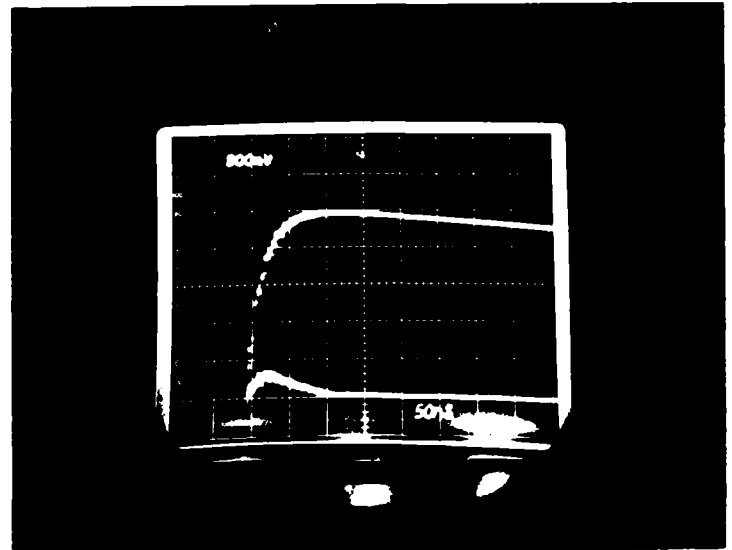
Date	6-4-85
Test Point	90-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



Date	6-4-85
Test Point	90R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

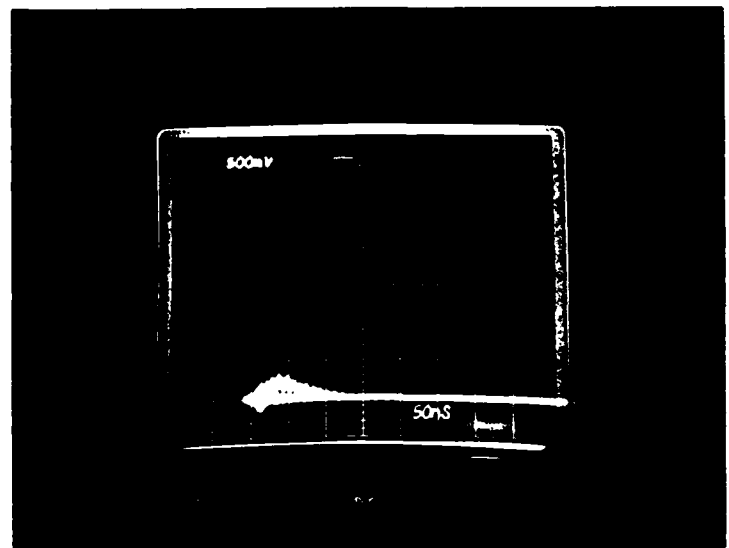


Date	6-4-85
Test Point	90-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	



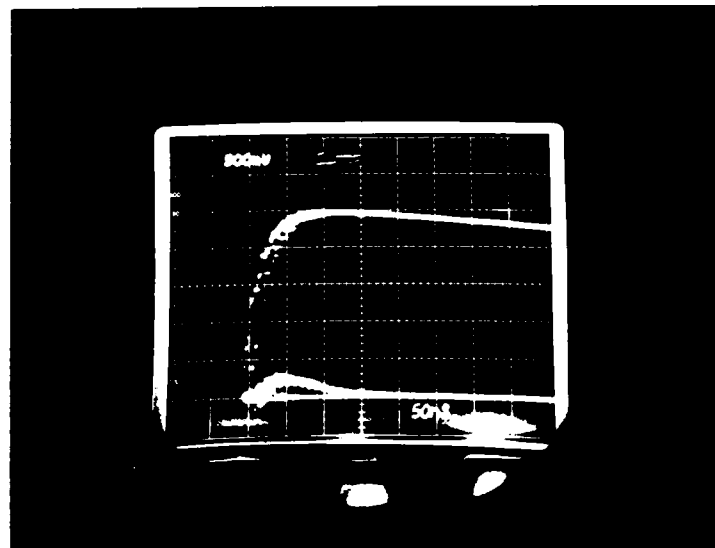
677

Date	6-4-85
Test Point	90R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	



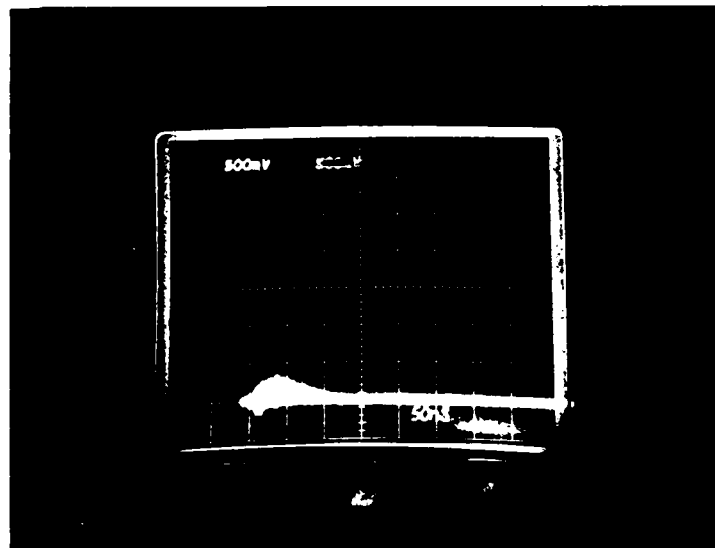
678

Date	6-4-85		
Test Point	90-CL-1/10-D		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	+4500V		
Data Link			
Comments:	679		



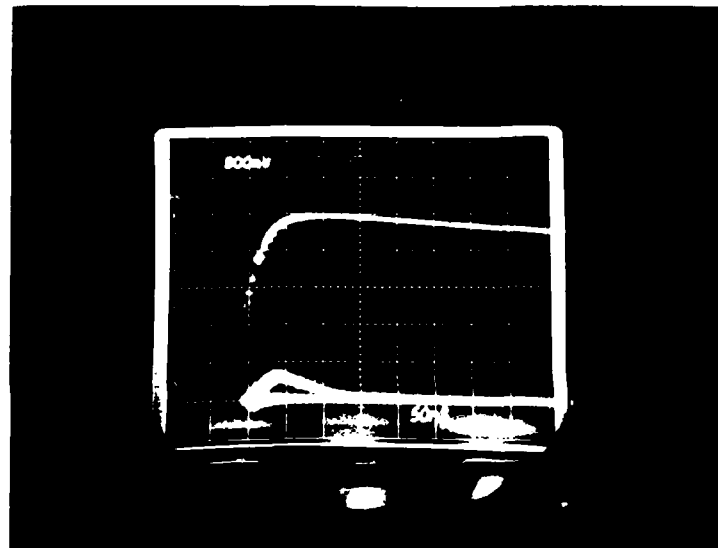
679

Date	6-4-85		
Test Point	90R-CL-1/10-D		
Amplification	dB		
Attenuation	20	dB	
Horizontal	50	ns/div	1
Vertical	.5V (950)	mV/div	1
Horizontal		ns/div	2
Vertical		ns/div	2
Configuration			
Pulser Level	-4500V		
Data Link			
Comments:	1380		

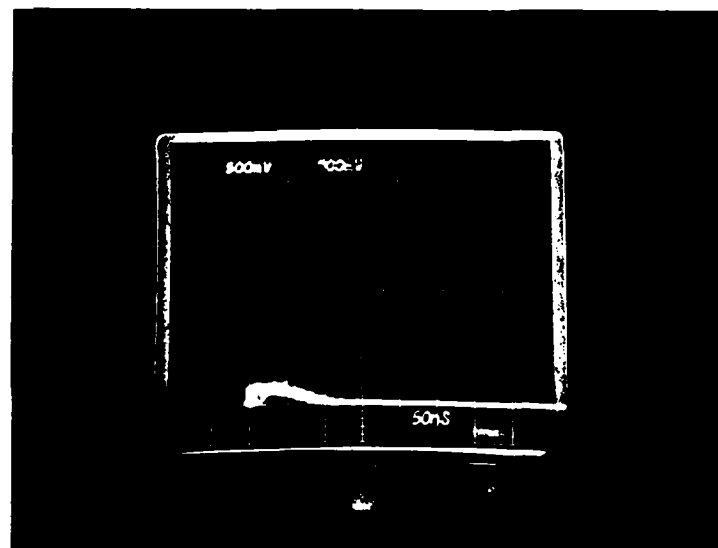


1380

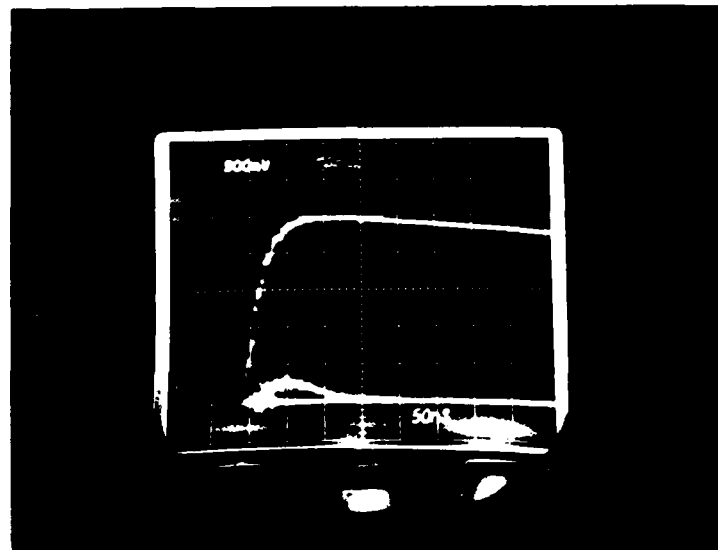
Date	6-4-85
Test Point	90-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	681



Date	6-4-85
Test Point	90R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	

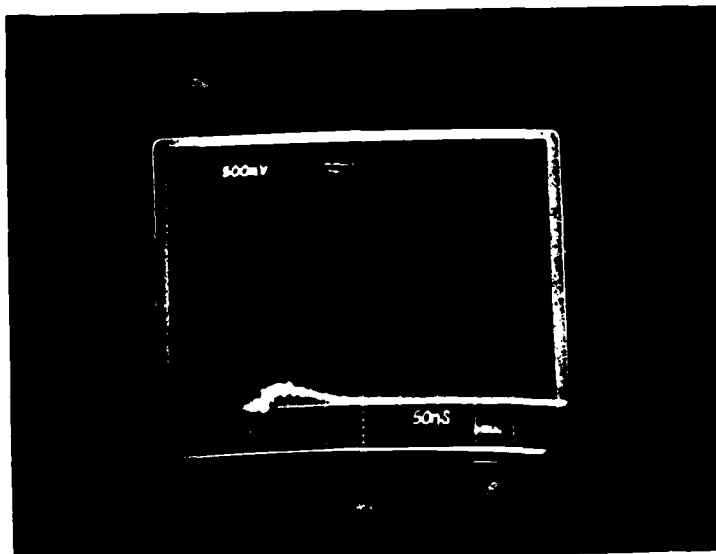


Date	6-4-85
Test Point	93-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	65



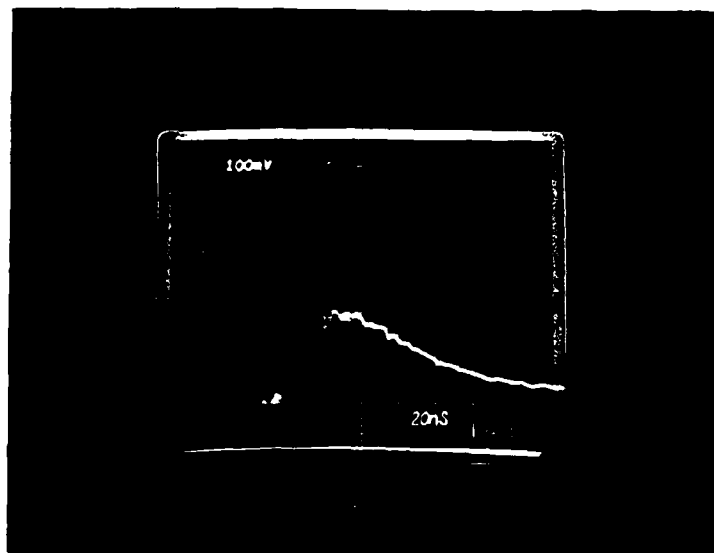
683

Date	6-4-85
Test Point	93R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



684

Date	6-4-85
Test Point	93R-CL-Y10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	(+)+500V
Data Link	
Comments:	



685

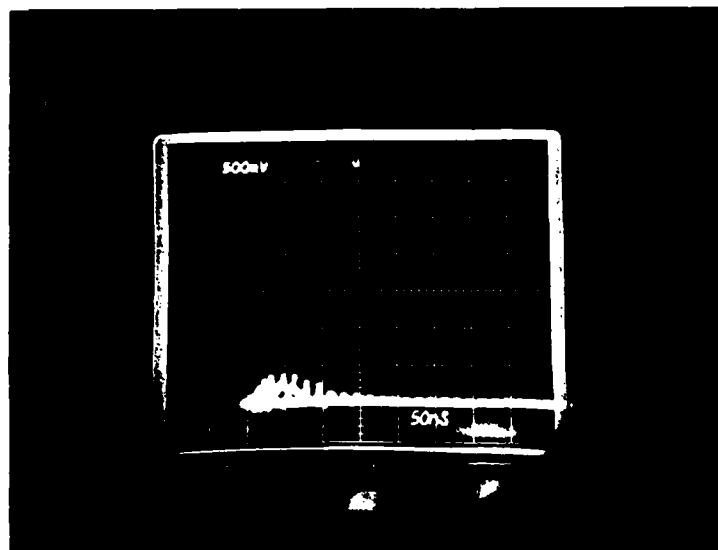
Date	6-4-85
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	93-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	1000



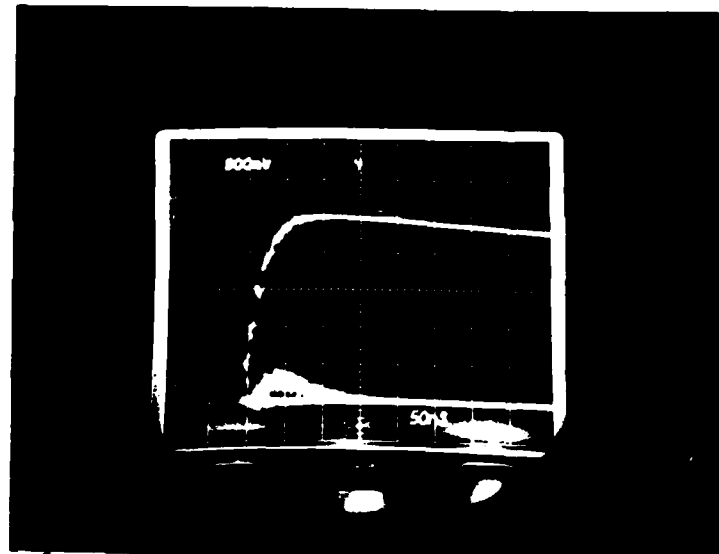
686

Date	6-4-85
Test Point	93R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

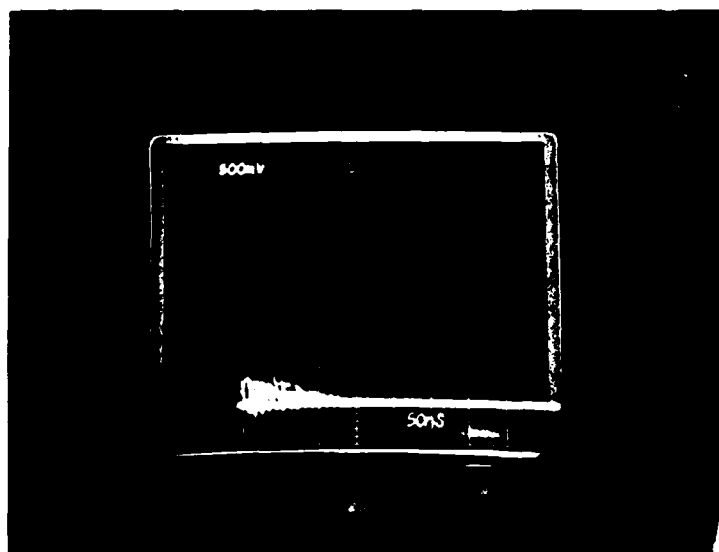


687

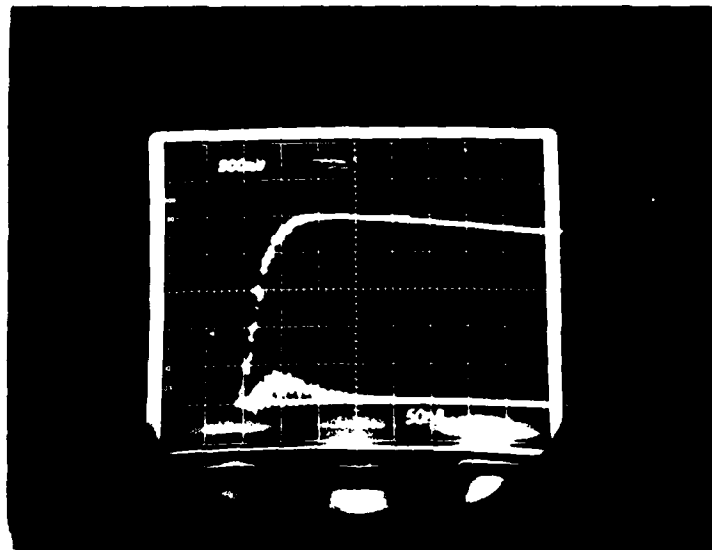
Date	6-4-85
Test Point	93-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	688



Date	6-4-85
Test Point	93R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	689

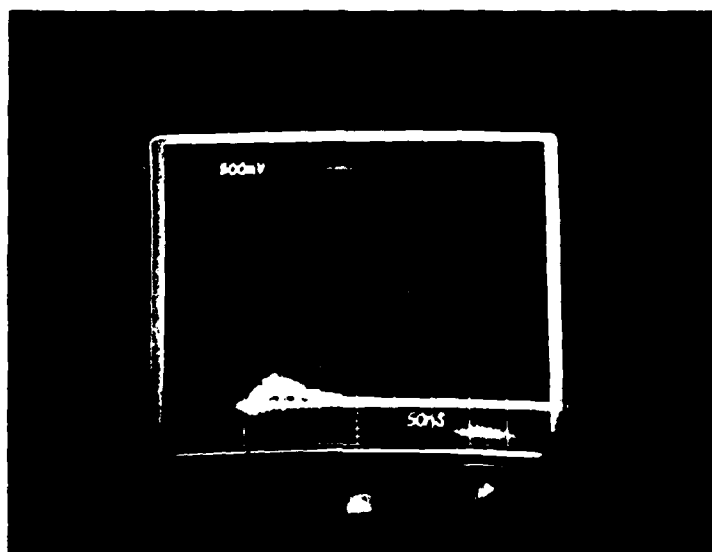


Date	6-4-85
Test Point	93-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



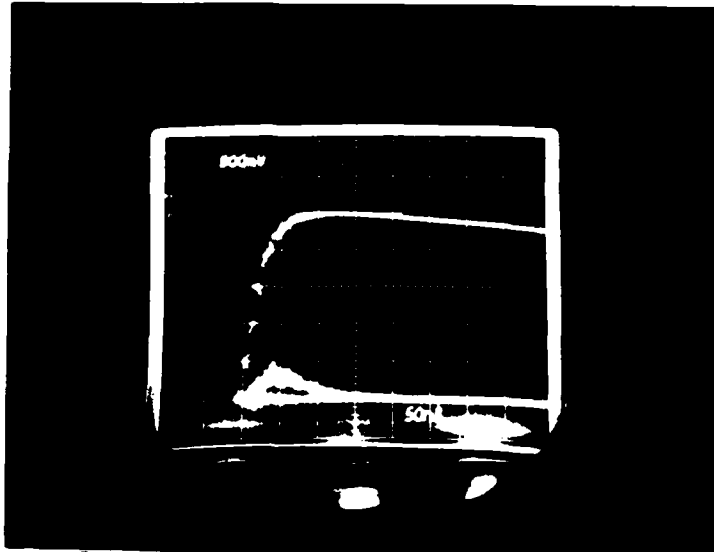
690

Date	6-4-85
Test Point	93R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



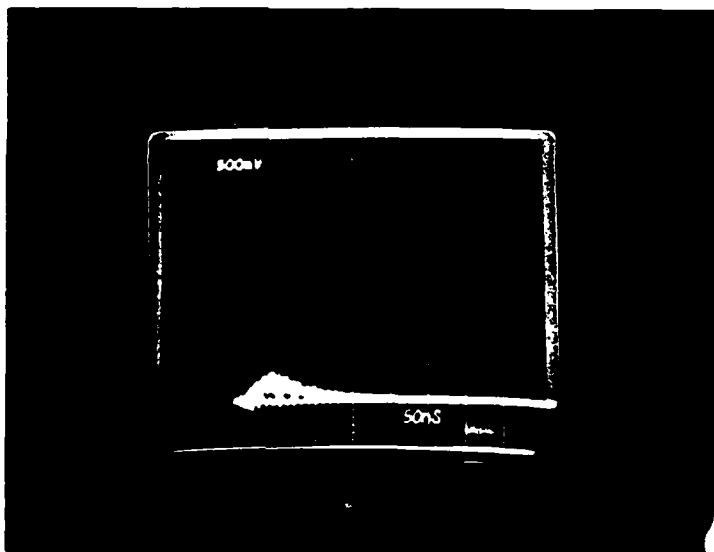
691

Date	6-4-85
Test Point	93-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	6



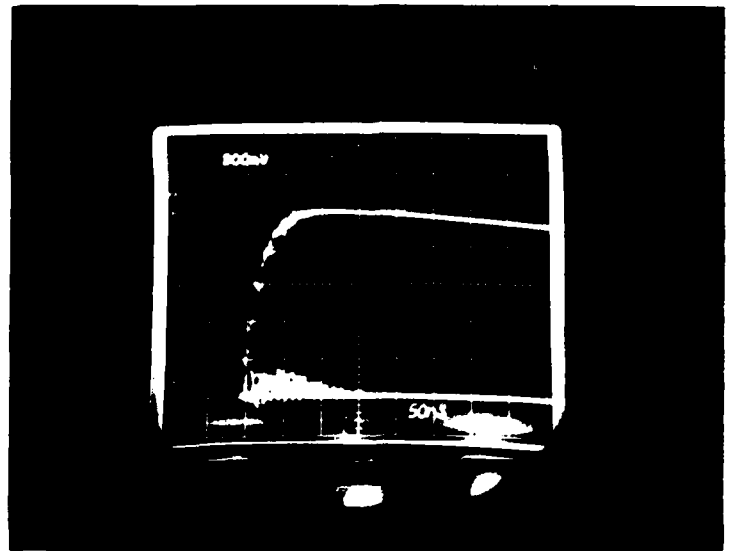
692

Date	6-4-85
Test Point	93R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	



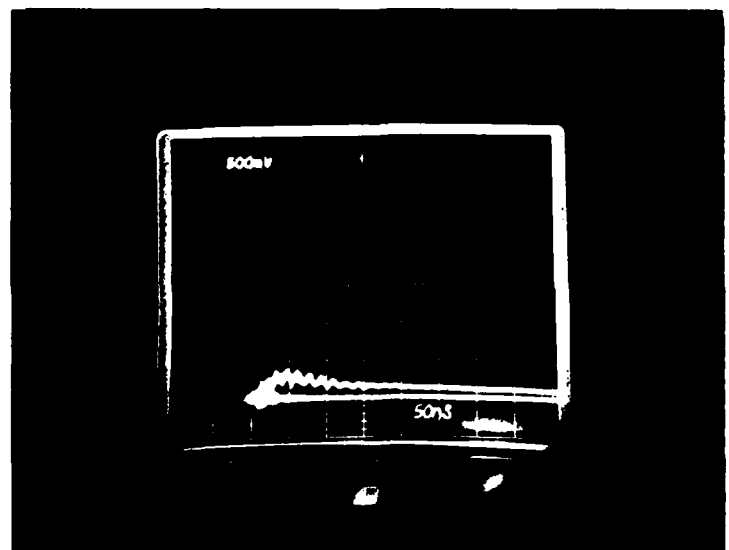
693

Date	6-4-85
Test Point	99-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	



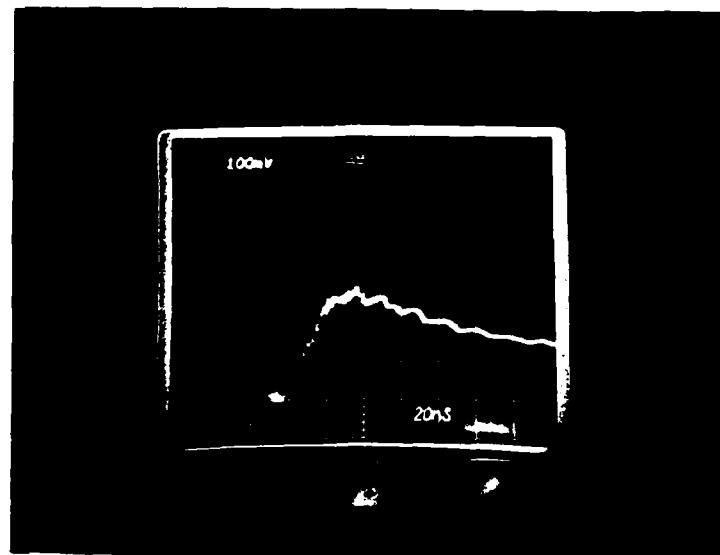
694

Date	6-4-85
Test Point	99R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	695



695

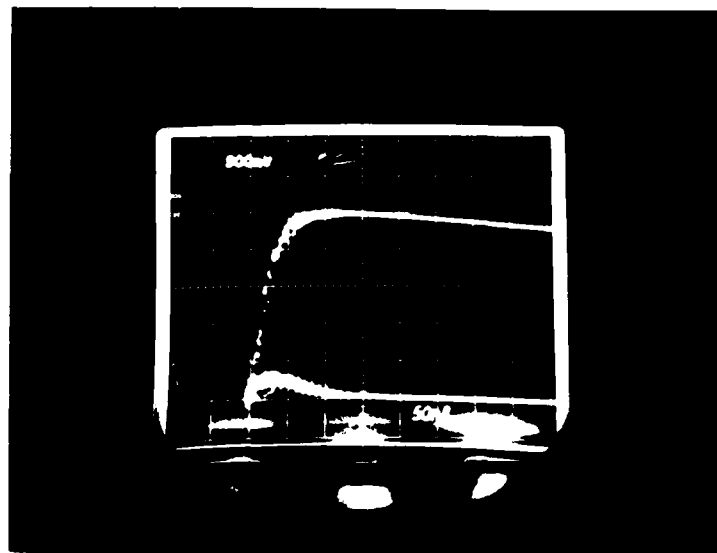
Date	6-4-85
Test Point	99R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	696



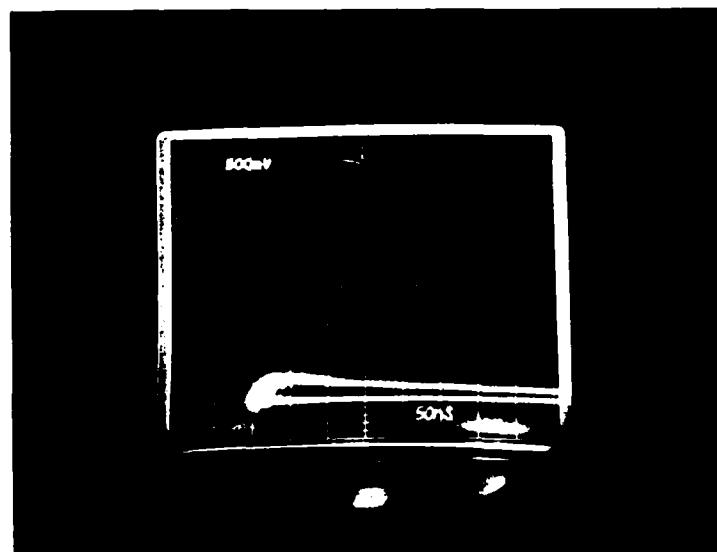
696

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	6-4-85
Test Point	99-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	697



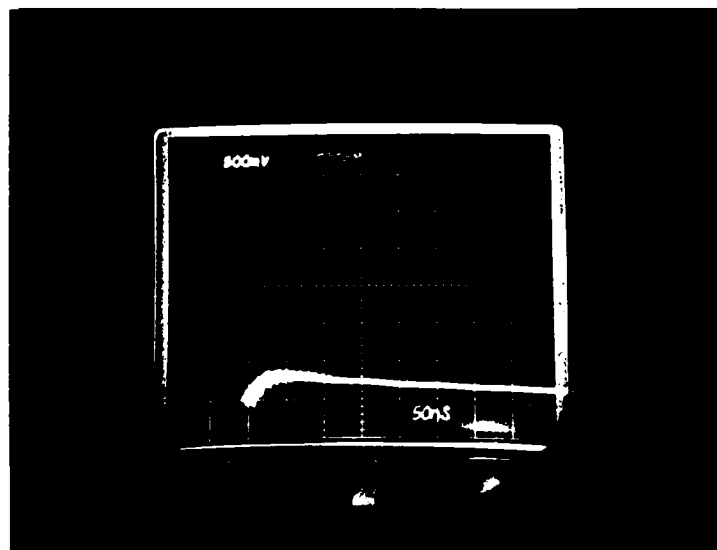
Date	6-4-85
Test Point	99R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	698



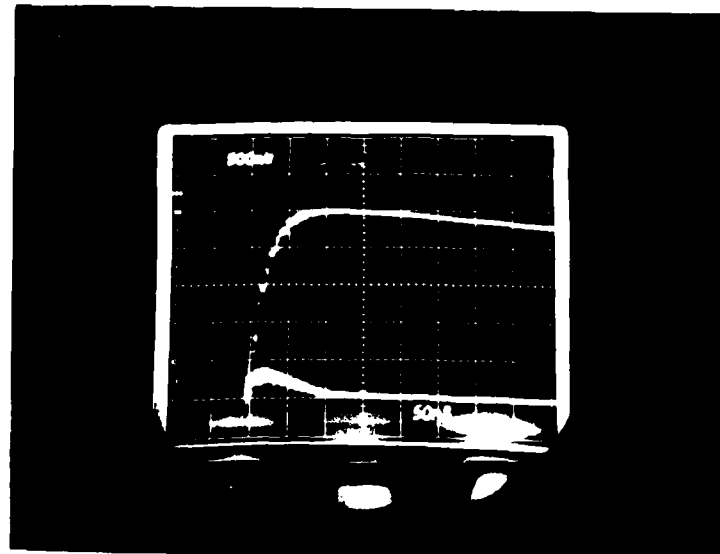
Date	6-4-85
Test Point	99-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	



Date	6-4-85
Test Point	99R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	

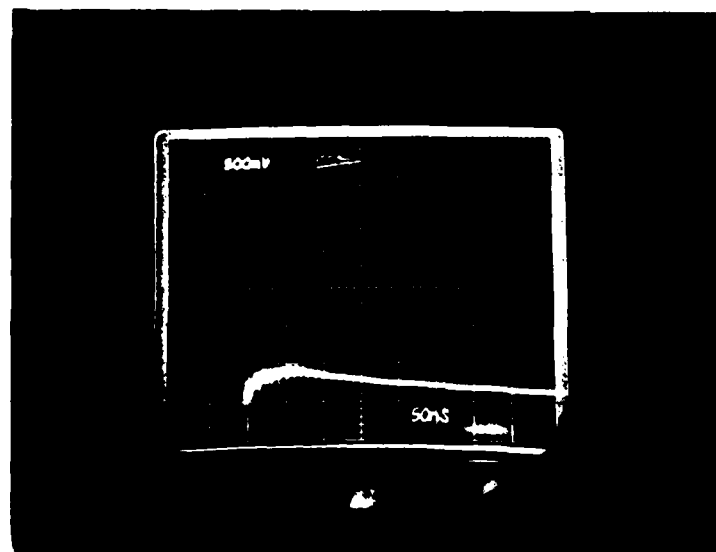


Date	6-4-85
Test Point	99-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	



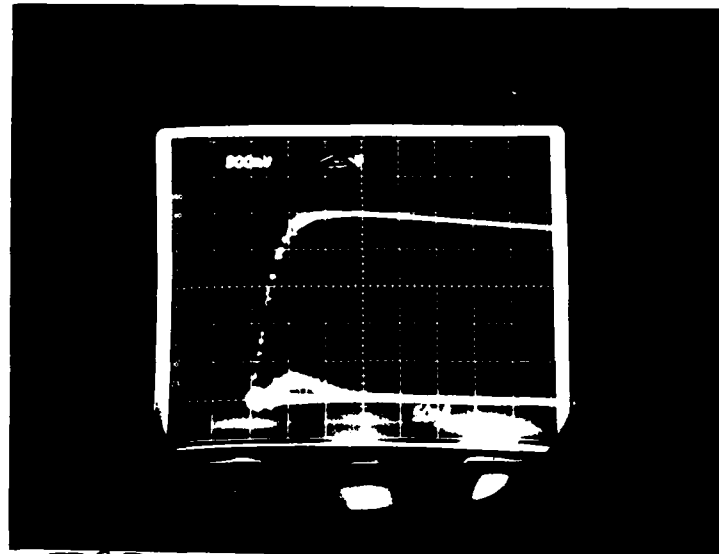
701

Date	6-4-85
Test Point	99R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

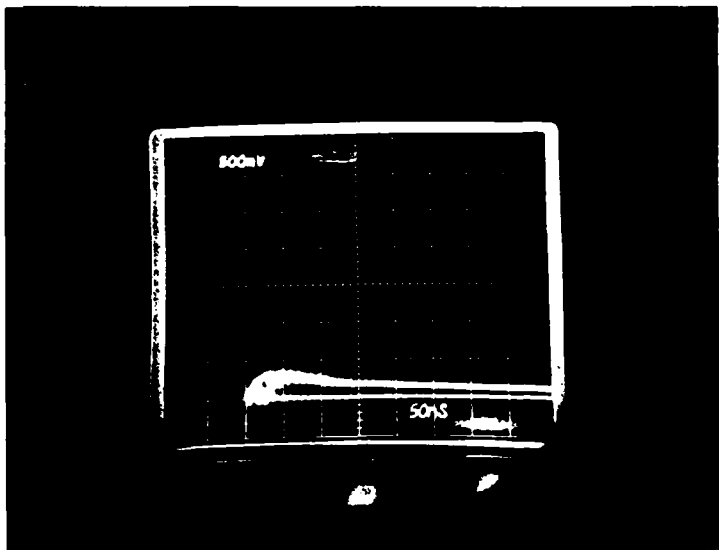


702

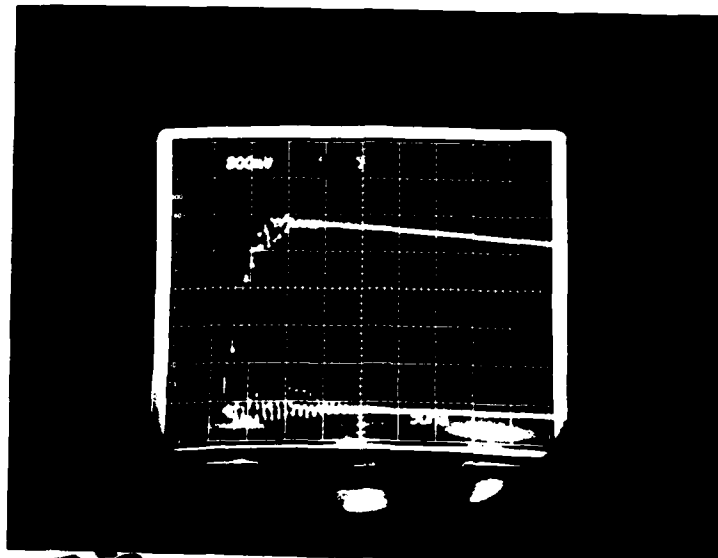
Date	6-4-85
Test Point	99-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	703



Date	6-4-85
Test Point	99R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	

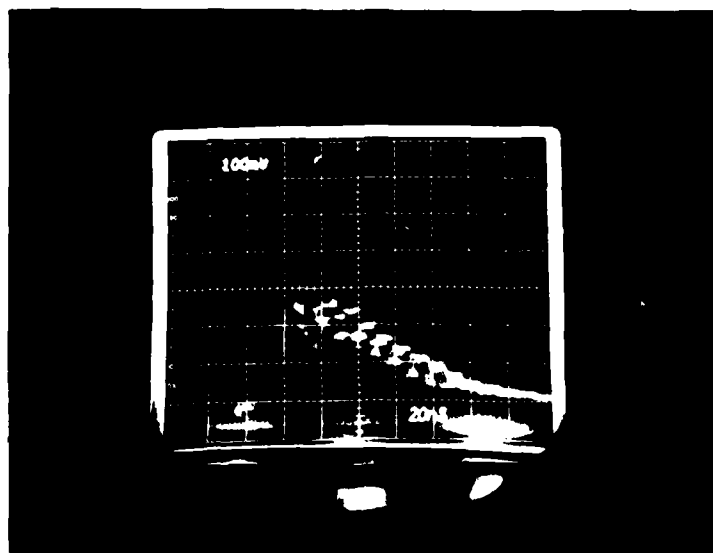


Date	6-4-85
Test Point	102-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	752



752

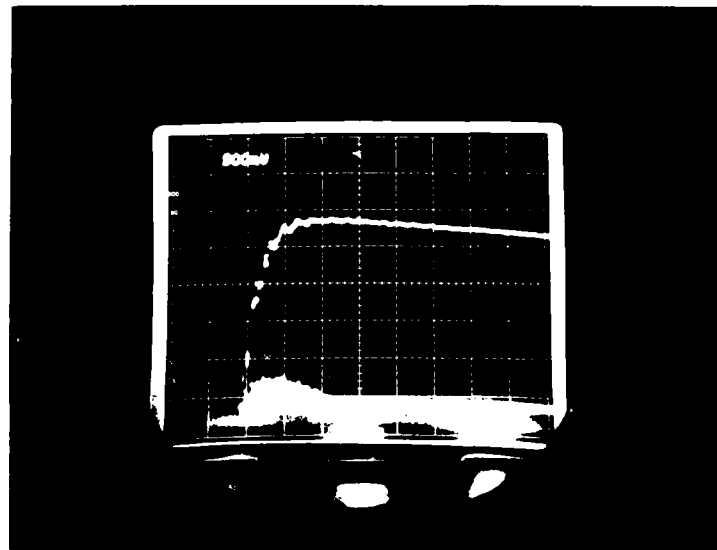
Date	6-4-85
Test Point	102R-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Data Link	
Comments:	753



753

Date	6-4-85
Test Point	102-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	

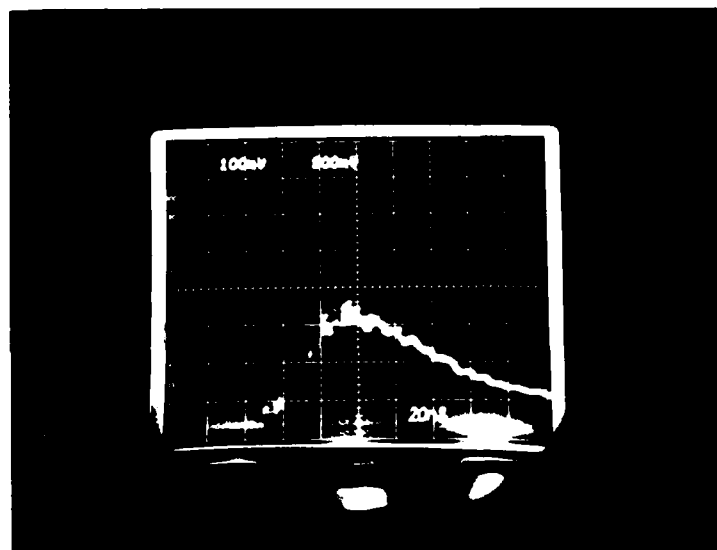
754



754

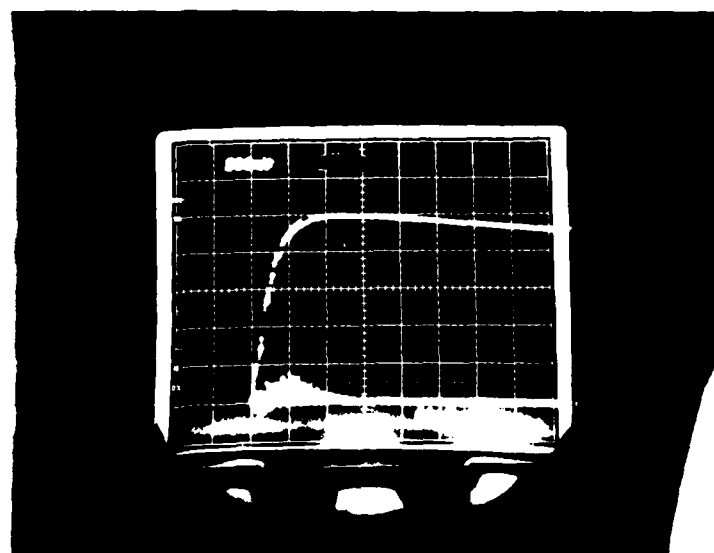
Date	6-4-85
Test Point	102R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	

755



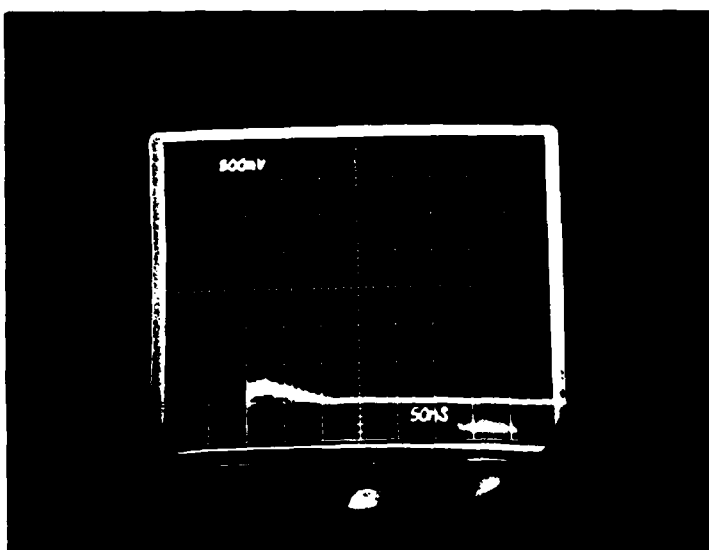
755

Date	6-4-85
Test Point	104-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	705



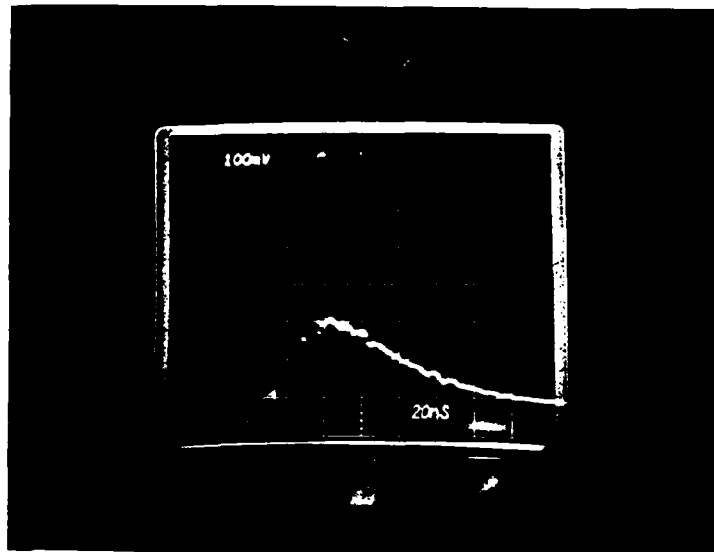
705

Date	6-4-85
Test Point	104R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	706



706

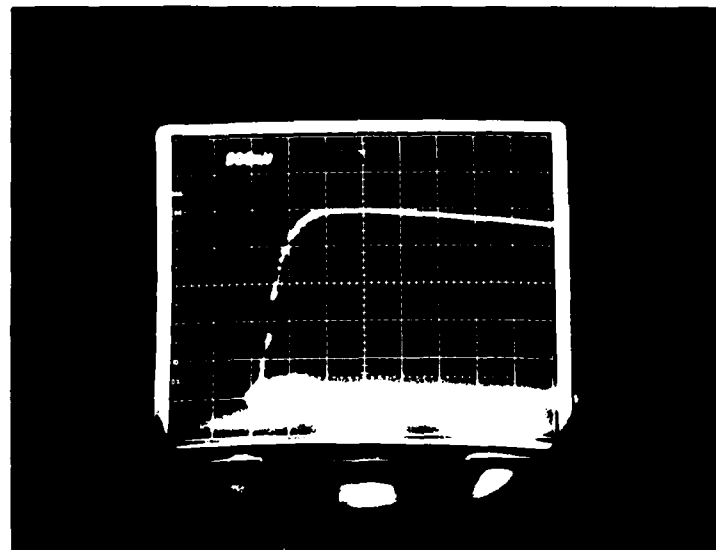
Date	6-4-85
Test Point	104R-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500 V
Date Link	
Comments:	707



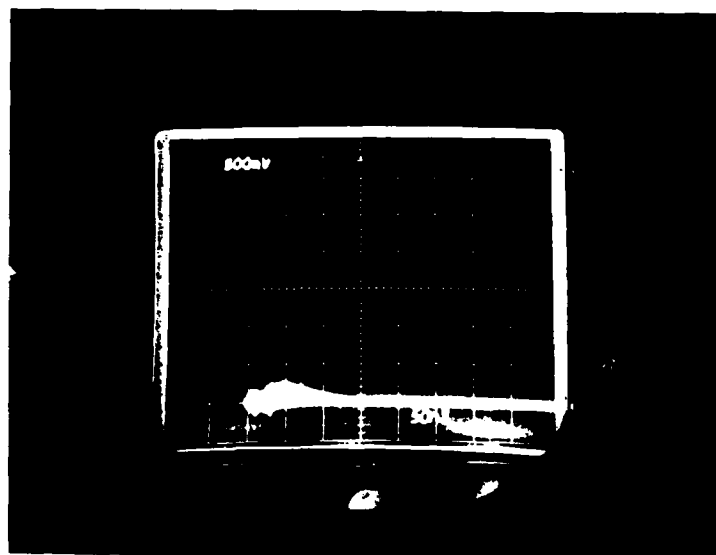
707

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Date Link	
Comments:	

Date	6-4-85
Test Point	104-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	708



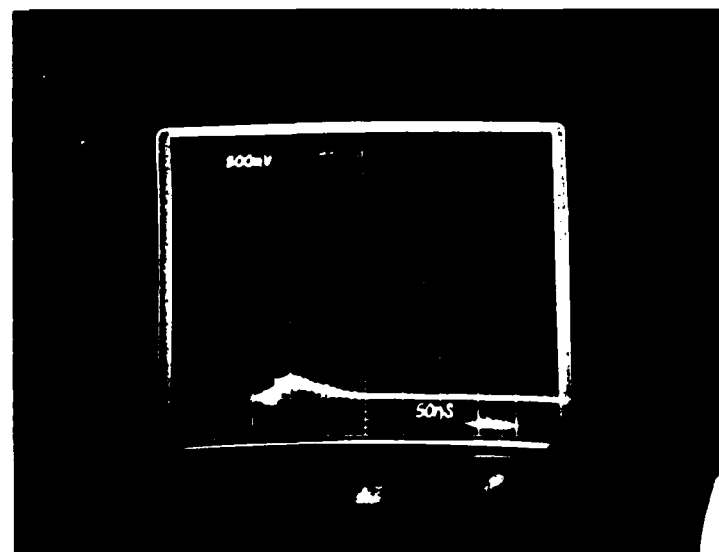
Date	6-4-85
Test Point	104R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	709



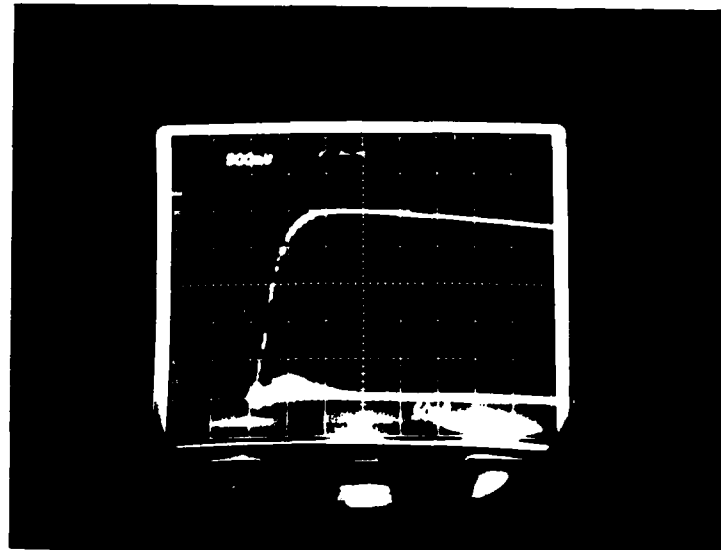
Date	6-4-85
Test Point	104-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 V
Data Link	
Comments:	710



Date	6-4-85
Test Point	104R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	711

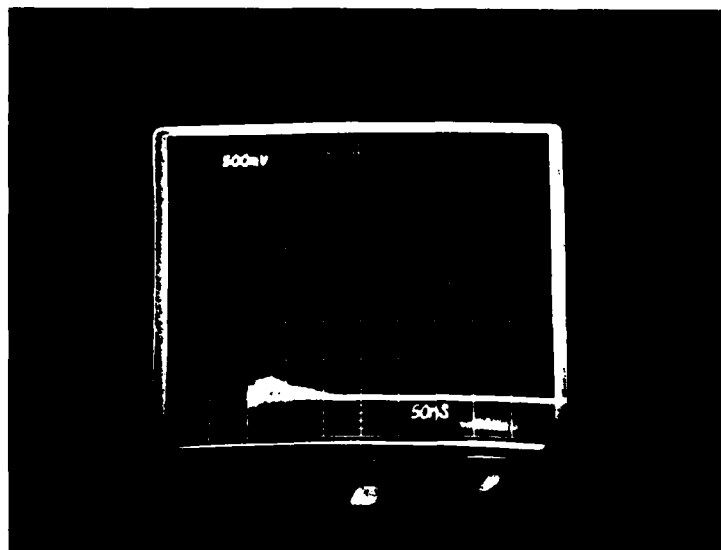


Date	6-4-85
Test Point	104-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	712



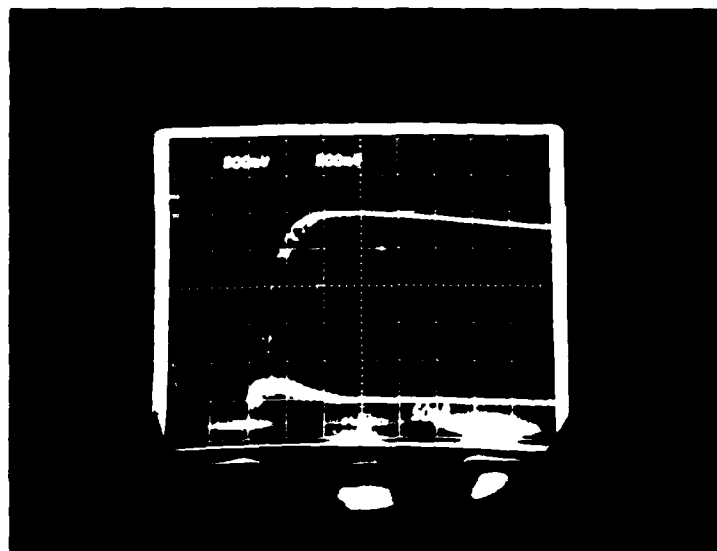
712

Date	6-4-85
Test Point	104R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	713

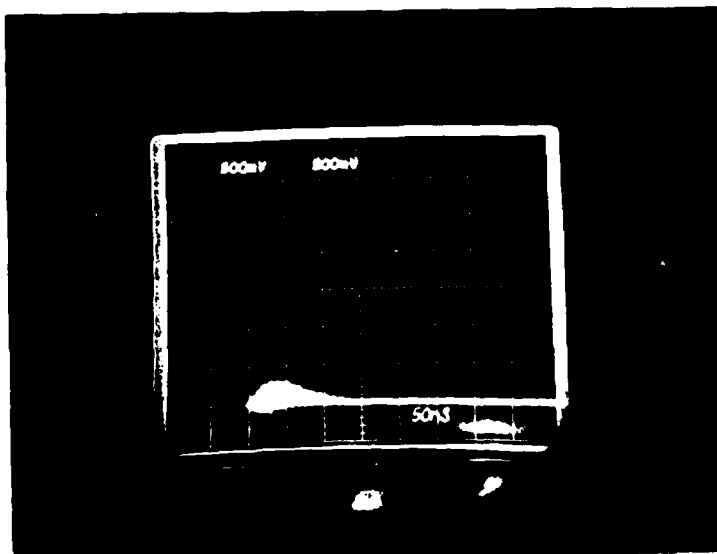


713

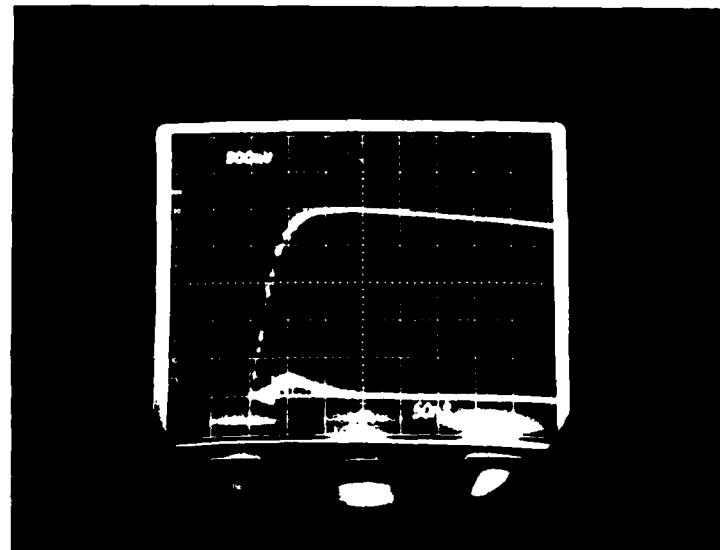
Date	6-4-85
Test Point	104-CL-110-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	717



Date	6-4-85
Test Point	104R-CL-110-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	715

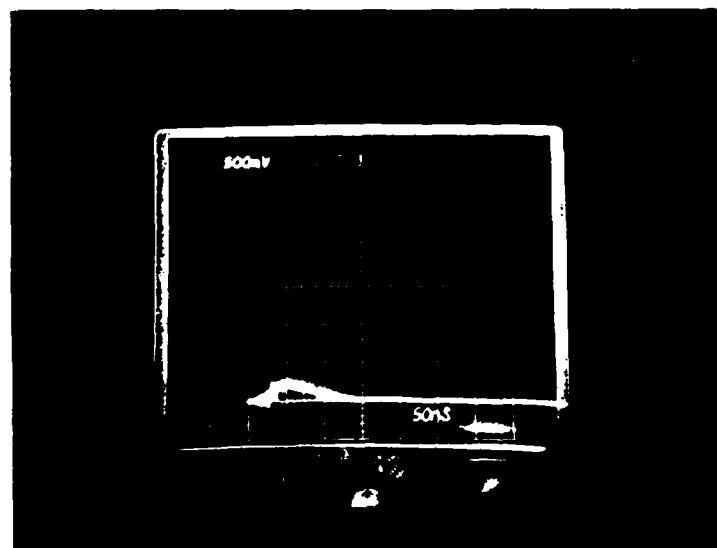


Date	6-4-85
Test Point	107-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	716



716

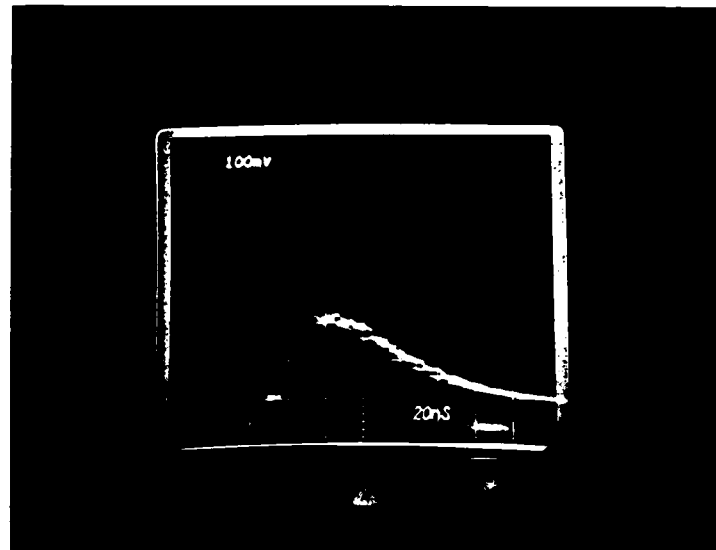
Date	6-4-85
Test Point	107R-CL-410-A
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	717



717

Date	6-4-85
Test Point	107R-CL-40-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.1V (190) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	

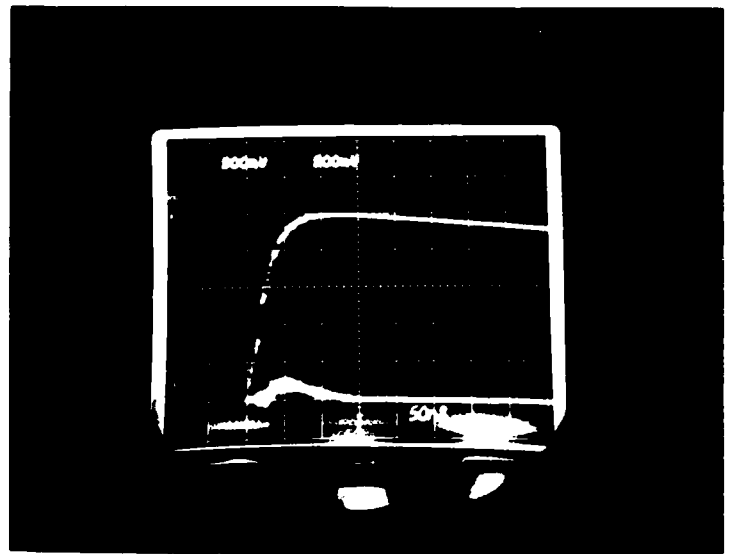
Comments: 719



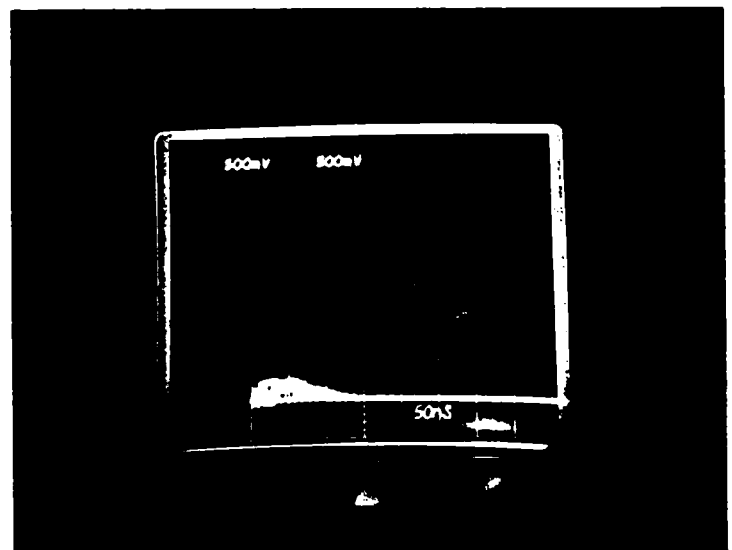
Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	

Comments:

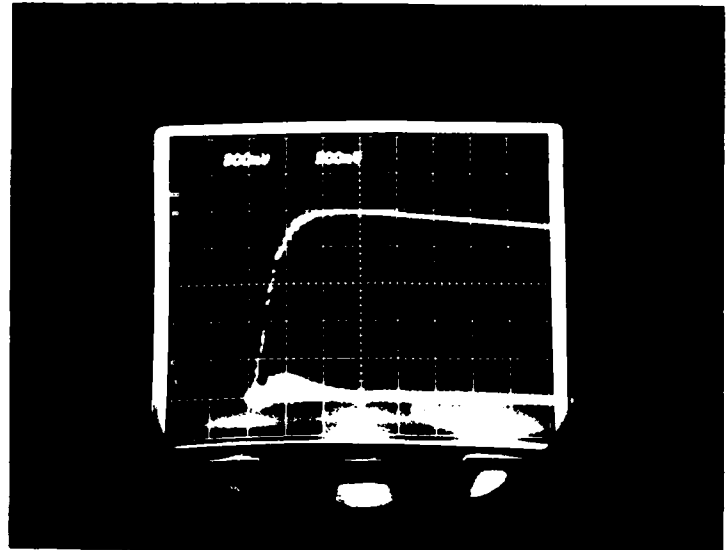
Date	6-4-85
Test Point	107-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500 V
Data Link	
Comments:	719



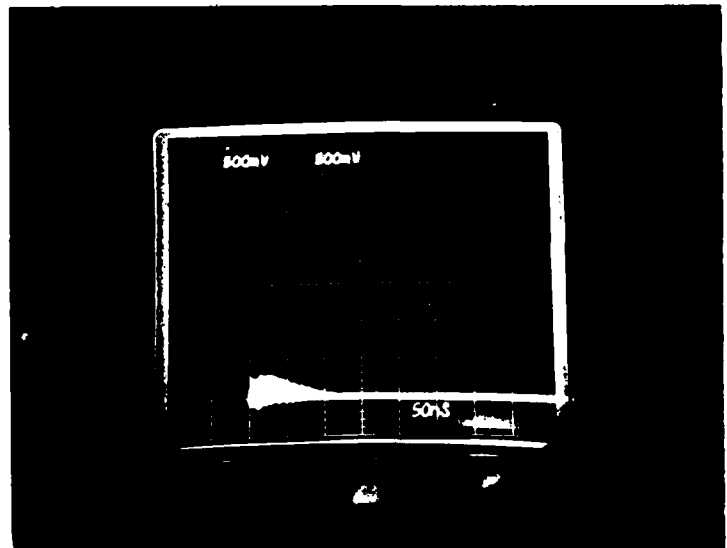
Date	6-4-85
Test Point	107R-CL-1/10-B
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500 V
Data Link	
Comments:	720



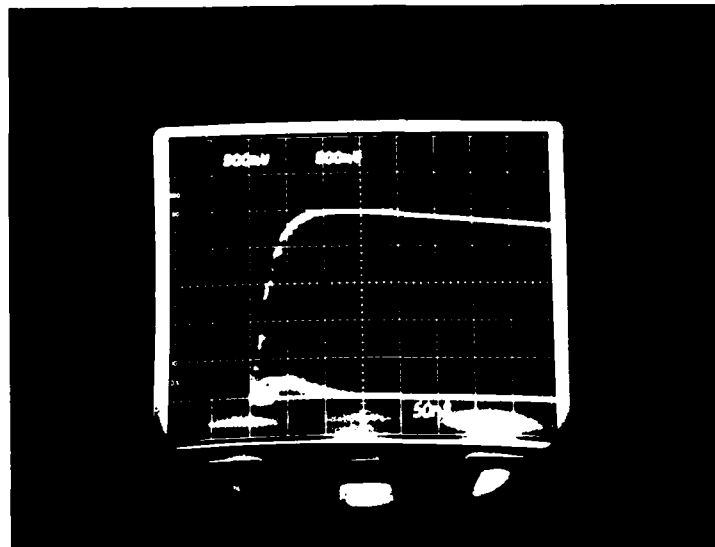
Date	6-4-85
Test Point	107-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950 V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500 ✓
Data Link	
Comments:	721



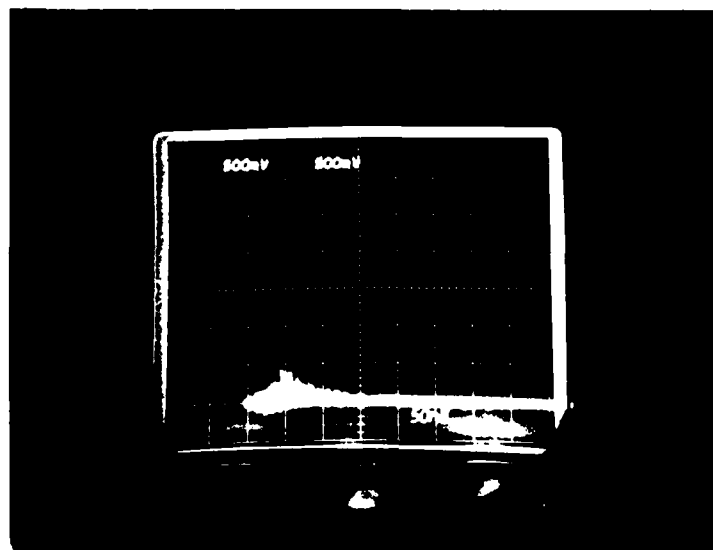
Date	6-4-85
Test Point	107R-CL-1/10-C
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950 V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V ✓
Data Link	
Comments:	722



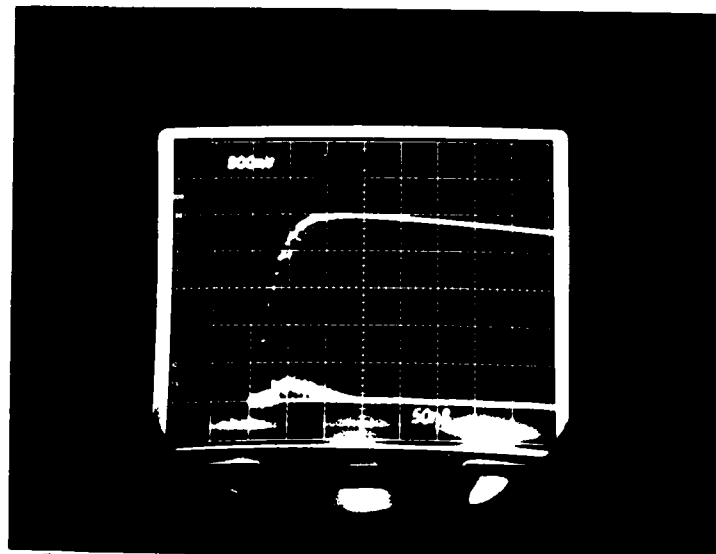
Date	6-4-85
Test Point	107-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	723



Date	6-4-85
Test Point	107R-CL-1/10-D
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V (950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	724

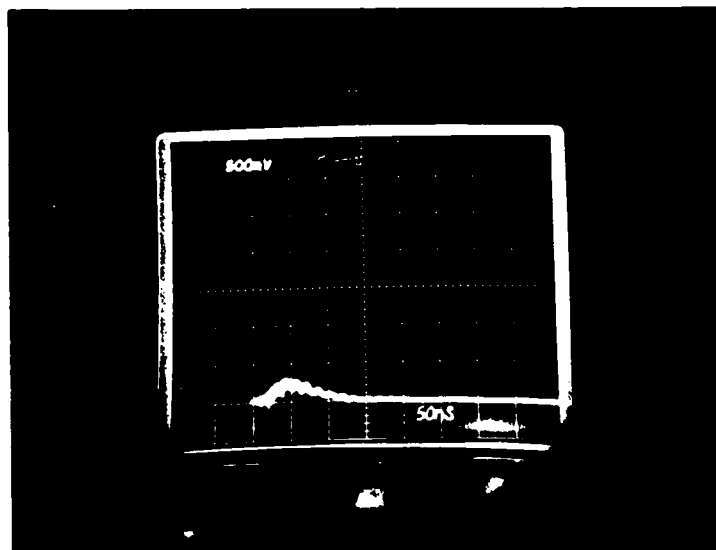


Date	6-4-85
Test Point	107-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+4500V
Data Link	
Comments:	725



725

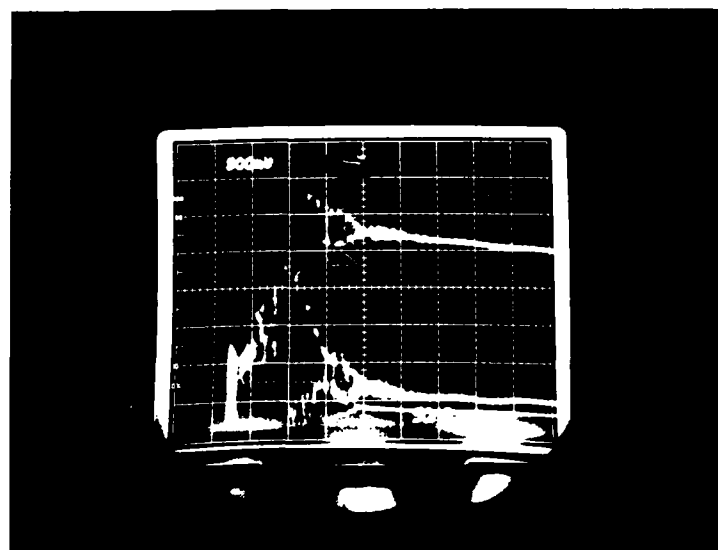
Date	6-4-85
Test Point	107R-CL-1/10-E
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	-4500V
Data Link	
Comments:	726



726

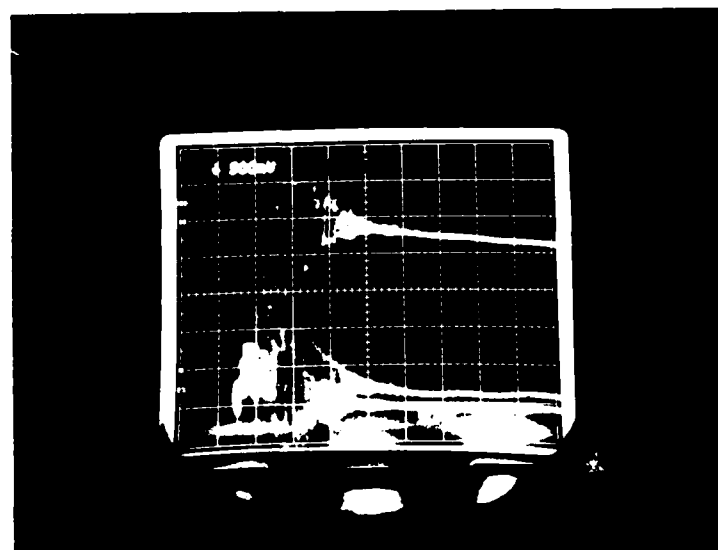
Date	5-30-85
Test Point	109-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	

"HOT LEAD" 474



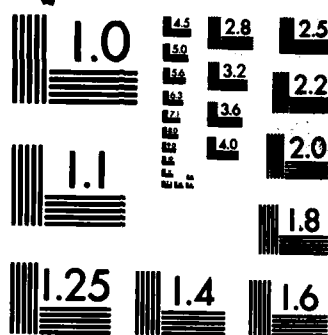
Date	5-30-85
Test Point	109R-CL-1/10-φ
Amplification	0 dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	.5V(950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	

"HOT LEAD" 475



AD-A164 434L ELECTROMAGNETIC PULSE/TRANSIENT THREAT TESTING OF 3/3
PROTECTION DEVICES FOR (U) ELECTROSPACE SYSTEMS INC
ARLINGTON VA D BODSON ET AL 31 OCT 85
UNCLASSIFIED NCS-T18-85-10-VOL-3-SEC-3 DCA100-85-C-0010 F/G 20/14 USGO

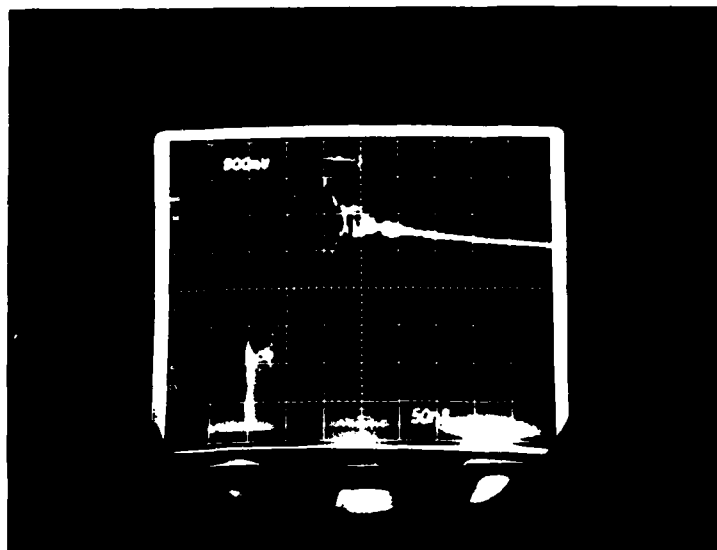




MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Date	5-30-85
Test Point	109-CL-1/10-Ø
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	

Comments:
"COMMON LEAD" 476

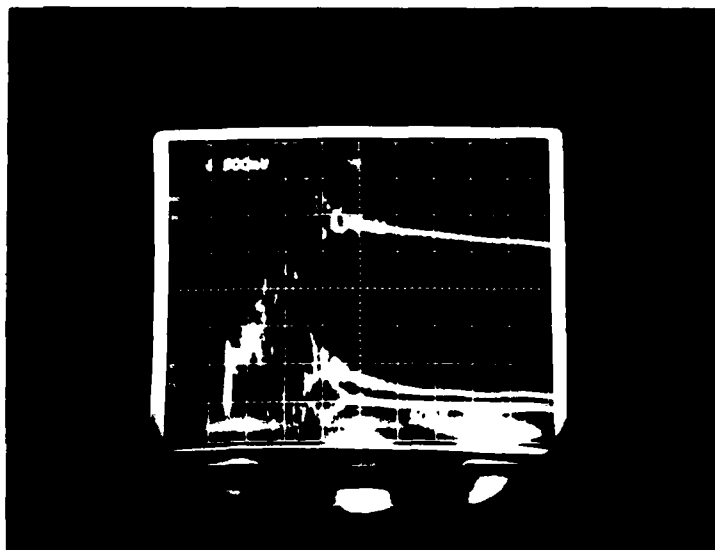


476

Date	5-30-85
Test Point	109R-CL-1/10-Ø
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	

Comments: 477

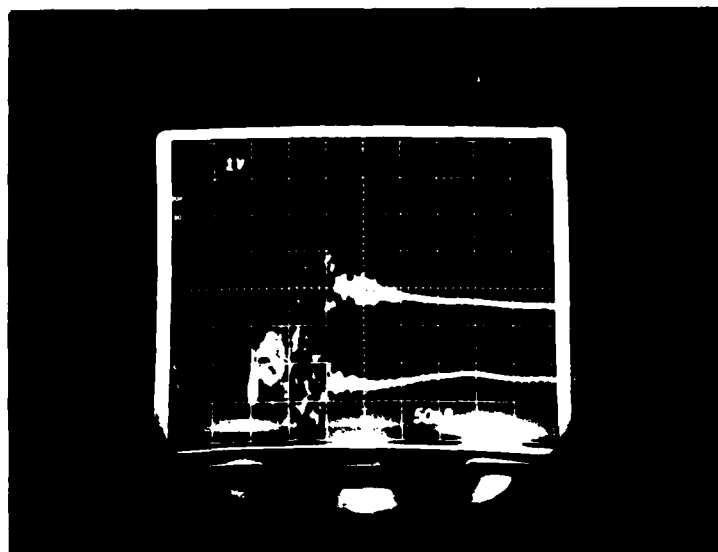
PULSE ON COMMON



477

Date	5-31-85
Test Point	110-CL-110-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500V
Data Link	
Comments:	482

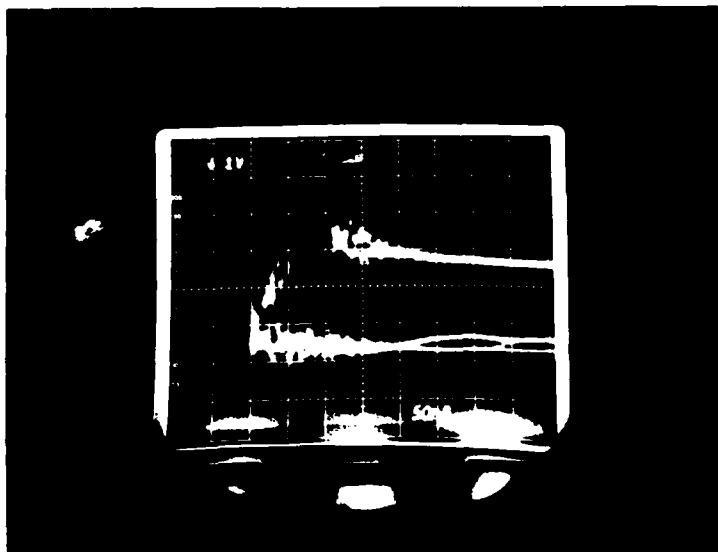
Peach
"COMMON LEAD"



482

Date	5-31-85
Test Point	110R-CL-110-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	483

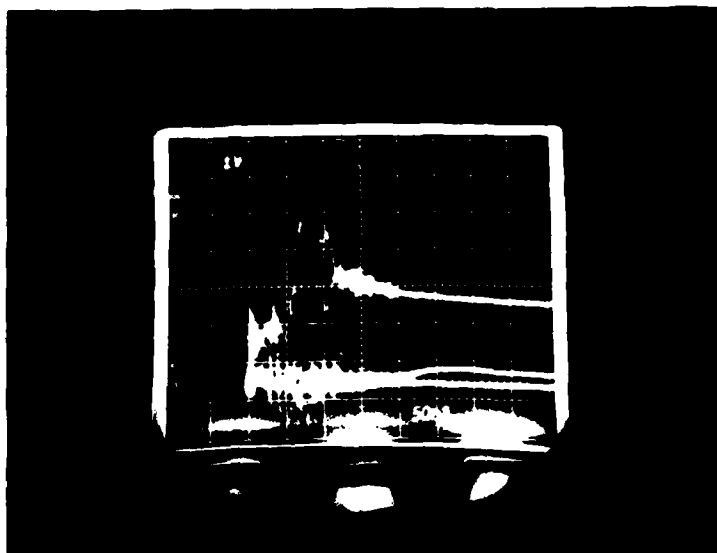
Peach
"COMMON LEAD"



483

Date **5-31-85**
 Test Point **110-CL-1/10-Ø**
 Amplification dB
 Attenuation **20** dB
 Horizontal **50** ns/div 1
 Vertical **1V (1900V)** mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level **+ 4500V**
 Data Link
 Comments: **PEACH 486**

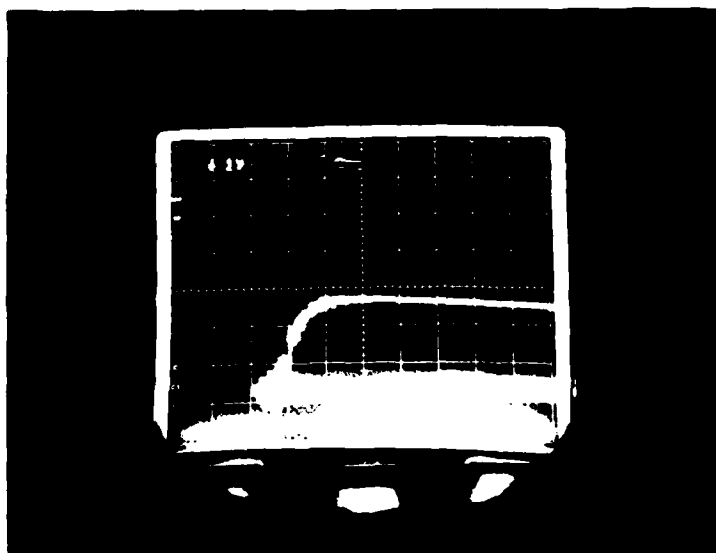
"HOT LEAD"



486

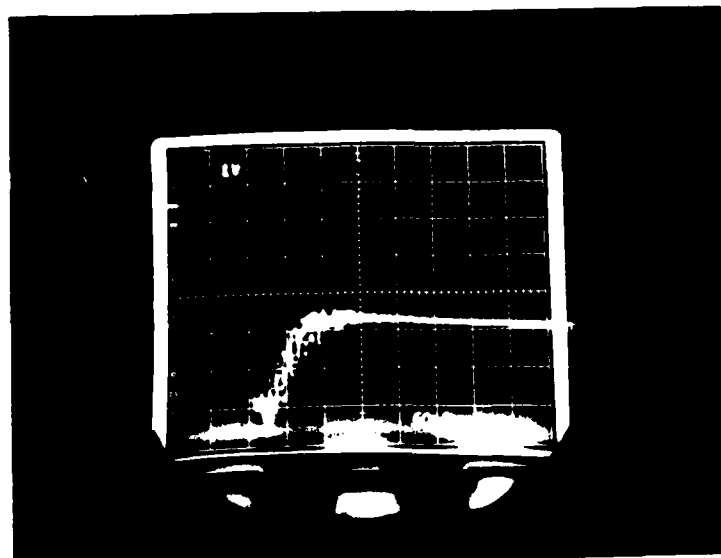
Date **5-31-85**
 Test Point **110R-CL-1/10-Ø**
 Amplification dB
 Attenuation **20** dB
 Horizontal **50** ns/div 1
 Vertical **1V (1900V)** mV/div 1
 Horizontal ns/div 2
 Vertical ns/div 2
 Configuration
 Pulsar Level **-4500V**
 Data Link
 Comments: **PEACH 487**

HOT LEAD



487

Date	5-31-85
Test Point	111-CL-110-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V(1900V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	WABER 111



111

HOT TO NEUTRAL (COMMON)

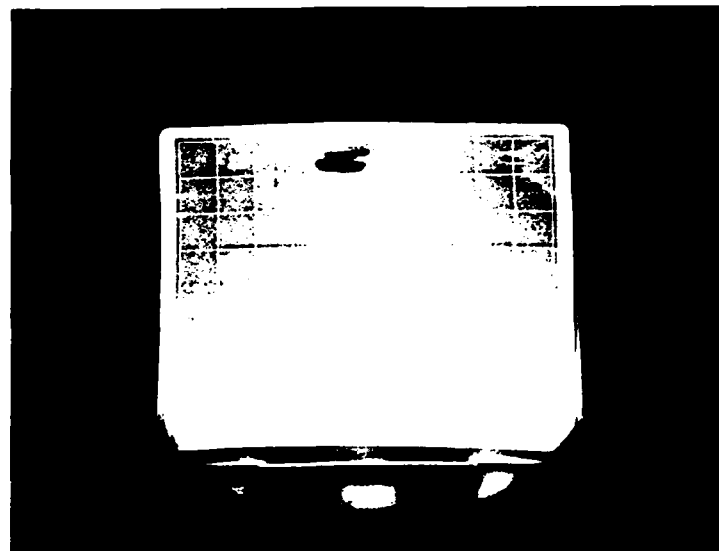
SCOPE DID NOT TRIGGER

Date	
Test Point	
Amplification	dB
Attenuation	dB
Horizontal	ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	
Data Link	
Comments:	

Date	5-31-85
Test Point	112-AL-1/10-Φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	+ 4500 V
Data Link	
Comments:	489

ARCHER

DEVICE ARCING
COMMON TO GND.

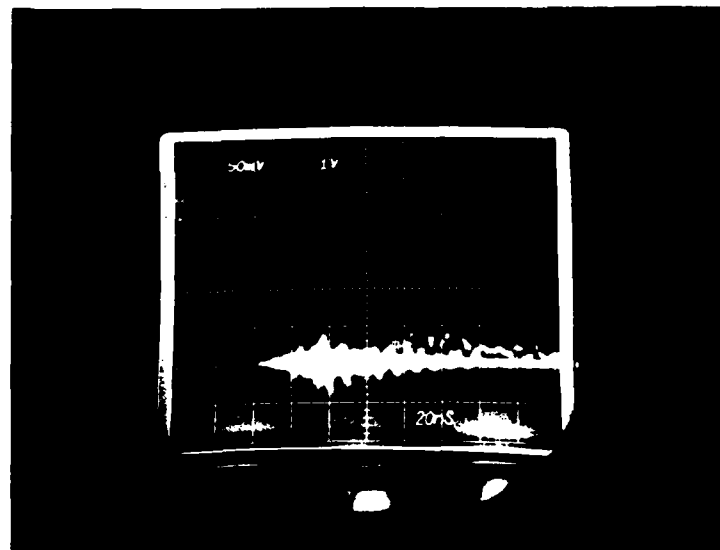


489

Date	5-31-85
Test Point	112-AL-1/10-Φ
Amplification	dB
Attenuation	20 dB
Horizontal	50 ns/div 1
Vertical	1V (1200V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500 V
Data Link	
Comments:	

Date	5-30-85
Test Point	113-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.05V(12) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500 V
Data Link	
Comments:	

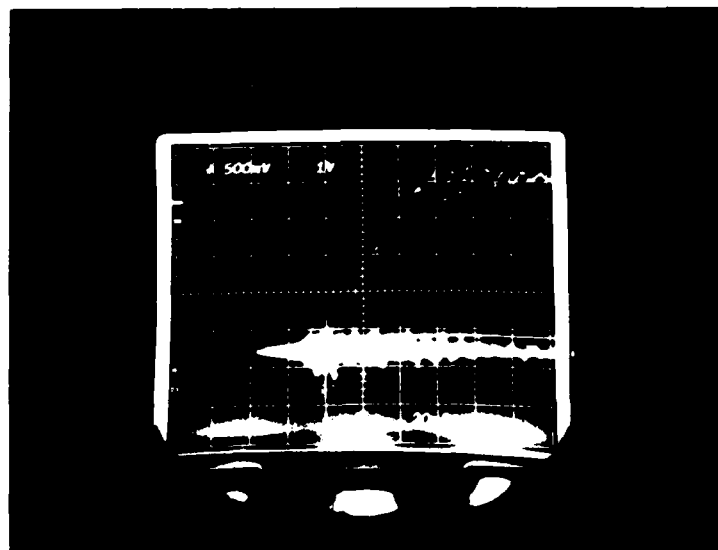
454



454

Date	5-30-85
Test Point	113R-CL-110-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(120) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	- 4500V
Data Link	
Comments:	

455

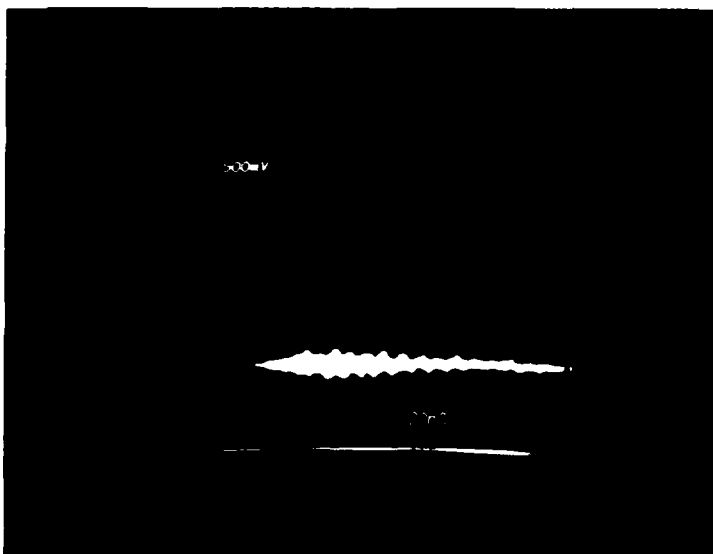


455

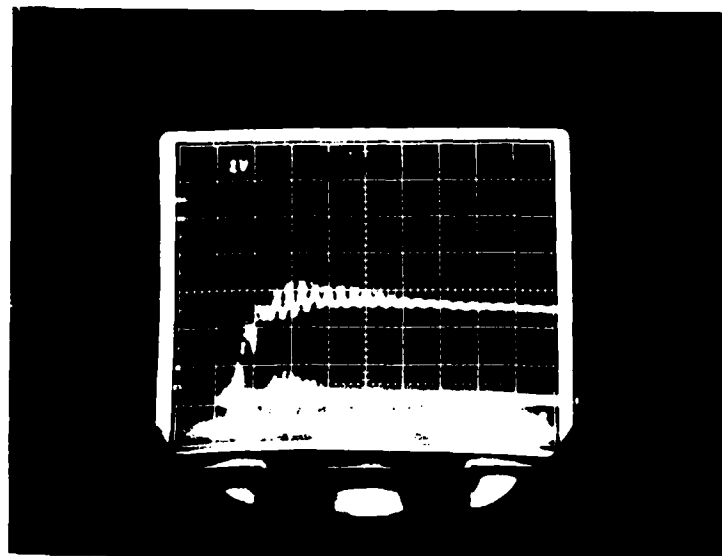
Date	5-30-85
Test Point	113-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.5V(120) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	452



Date	5-30-85
Test Point	113-CL-1/10-A
Amplification	dB
Attenuation	20 dB
Horizontal	.5V(120) ns/div 1
Vertical	mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulser Level	4500V
Data Link	
Comments:	453



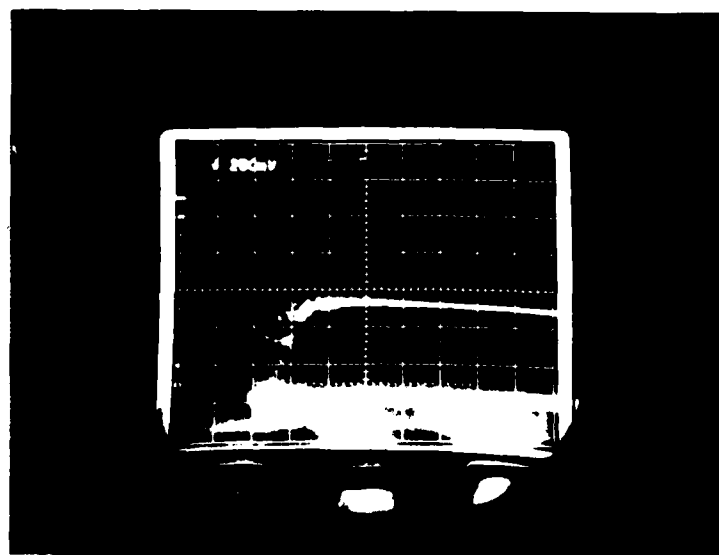
Date	5-30-85
Test Point	114-CL-1/10-Ø
Amplification	dB
Attenuation	dB
Horizontal	20 ns/div 1
Vertical	.5V (950V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	+4500V
Data Link	
Comments:	512



412

512

Date	5-30-85
Test Point	114R-CL-1/10-Ø
Amplification	dB
Attenuation	20 dB
Horizontal	20 ns/div 1
Vertical	.2V (380V) mV/div 1
Horizontal	ns/div 2
Vertical	ns/div 2
Configuration	
Pulse Level	-4500V
Data Link	
Comments:	



413

513

REF @ 1V (1900V)

END

FILMED

3

-86

DTIC